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# **CAMTEC Power Supplies**

## **Online Product Catalog**

Rev. 20151019-2346

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## CAMTEC - Pro-Power Made in Germany

CAMTEC engineers and manufactures .

The product range comprises AC/DC Power and for , , and . Camtec fabricates Programmable for the Test Automation, similar to a Laboratory Power Supply.

Our portfolio includes Unbreakable Power Supplies, ,, up to 60KW. CSE provides Redundant-Modules, and for the Automation Powertrain.

All our products are Made in Germany. Our FAB is regularly inspected by the German TÜV. The Camtec production is .

A Camtec Switch Mode Power Supply SMPS is designed for pro-applications like infrastructure, railway, traffic control or military use. Our products provide outstanding data. Camtec power products achieve CE, RoHS and REACH, as well as the new European (Energy-Using Products) EuP Eco-Design Directive.

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## Product philosophy

Camtec Power Supplies provide safety and extended life-time.

### Advanced Design...

Size ratio and power are standing well-balanced. Aware of physical headroom and high energy reserves, CAMTEC power supplies are not trimmed tiny. Our engineers design pro-power products with emphasis on ultimate lifetime and all-out product reliability. Connectors are mechanical oversized and electrical robust. Cabling connections are located in cool area.

### Solid Mechanical Design

The mechanical size and the power are well-balanced. Our design consciously features life-time and reliability before a few cubic centimeters of volume savings. All mechanical and all power connections are robust and electrical oversized. Power connections remain in cool operation areas. Our elaborate temperature design protects sensitive parts from wear out. Endangered parts are fixed against shock and vibration, preferred flexible substructure.

### Variable Inputs...

Camtec power supplies are made for worldwide operation. The input filter dimension and the typical hold-up-time healthy exceed standard requirements and the norms. The Camtec reliability and the rugged design set the benchmark.

### Complex Loads? ...consequently No! to the Fuse-Breaker-Design

Camtec power supplies provide a stable control loop and a very low ripple and noise. Huge energy resources cover extended load changes. We consequently avoid excessive designs like the overpowered Fuse-Breaker technology. Instead of an uncontrolled and imperiling power-boost we count on stored high energy buffer, cyberspeed control loop and a controlled and continuous energy supply. A very long C/V chart without foldback provides safe start-up of critical loads. In the process the control circuit masters the power supply safely even under extreme operation conditions. The connected load is protected against damage and contrawise the load can be as complex as conceivable - the Camtec power supplies are built to bear each challenge.

### High Efficiency...

Camtec product efficiency plays top-class. Most of our products meet the 90%+ Green Power Standard. It assures compact shape, lower heat emission, extended product lifetime and a high Meantime Between Failure (MTBF). Our product standard approves -20°C bis +60°C full load over the complete AC-input range and very moderate derating up to +70°C.

### Quality is no Offer - it is a Promise: Life-Time made for 24/7

The efficiency of the Camtec power supplies belongs to the world top level. Lower power losses ensure lower

heat dissipation. This results in higher life time of all involved components and devices. Regardless if prototype or a series production - each Camtec switch mode power supply is subject to our strict quality control. The life time (MTTF Mean Time To Failure @ +40°C ambient) of our products, mostly exceed 160.000 hours. This fact comes to more than 18 years of 24/7 operation. The statistic MTTF (Mean Time Between Failure) results in an upper level. Quality means to be consequent - even more concerning the manufacturing base. Camtec Power Supplies GmbH designs and manufactures all products in its own fabrication in Germany. The Camtec understands itself as a manufactory and a specialist - our staff lives quality. In fact it already begins with the feasibility study. ISO9001:2008, UI-certified fabrication, traceability and the 100% test of each product are no statistic luxury. For us it is the impression of a corporate culture that has just one target in focus - customer satisfaction. Our statistic over a 10 years time period 2003 to 2013 showed a failure rate of 0,004% of all Camtec products sold into the field. Selected sales partners in more than 50 countries locally support our customers.

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**Category:**

**AC/DC DIN-Rail 1phase**





## LCR-Series

- Low Cost Industrial Class Switch Mode Power Supply
- Fits into VDE0603 Sub-Distribution Switchbox

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## LCR Series

Model	LCR010.24	LCR030.24	LCR060.24	LCR100.24
Nominal Power	10W	30W	60W	100W
AC Nominal Input	100... 240Vac			
AC Input Voltage	90... 264Vac			
DC Input Voltage	140... 340Vdc			
AC Frequency	47... 63Hz			
Hold-Up Time	90ms	160ms	80ms	80ms
Inrush Current	41A	41A	81A	52A
Start	softstart			
Output Voltage	24V	24V	24V	24V
Adjust Range	24 ... 28V	24 ... 28V	24 ... 28V	24 ... 28V
Ripple P-P	7mV	7mV	7mV	8mV
DC Nominal Current	420mA	1,25A	2,5A	4,2A
Load Regulation dyn.	±0,02%			
Load Regulation Time	4,4ms	5,8ms	4,2ms	4,5ms
Efficiency 230Vac typ.	82%	85%	85%	86%
Base Load	none required			
Short Circuit	continous protected			
Ambient Operation	-10 bis +60°C			
Cooling	natural			
Temperature Control	yes, Hiccup, auto-recovery			
Housing	VDE0603 for CB boxes			
Type Class	IP20			
Burn Proof Class	UL94V-0			
Safety Norms	IEC60950-1/UL60950-1, EN60204			
Safety IEC	EN60950-1 EN50178			
Safety Class PELV	II A			
Input- /Output Isolation	3000Vac			
Humidity Operation	20 ... 90% non condensing			
EMI	EN55022B EN61000-3-2A			
EMS	EN61000-6-2,3			
MTBF IEC61709 [h]	299T	287T	250T	248T



## HSW00751

- DIN-Rail 1phase Fixed Output TS35mm DIN EN 50022

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## HSW00751

Model	HSW00751				
Power	75W				
Nominal AC Input	100... 240Vac				
Input Range AC	90... 265Vac				
Input Range DC	110... 375Vdc				
Input Frequency	47... 63Hz				
Hold-Up Time	40ms				
Inrush Current Protection	NTC <32A				
Autostart	Soft start 50ms				
Output Voltage	5V	9V	12V	15V	24V
Adjust Range Vout	4,9... 5,5V	8,6... 9,9V	11,4... 13,2V	14,3... 16,5V	22,5... 28,5V
Ripple & Noise mVpp	15mV	15mV	20mV	20mV	50mV
Nominal Output Current	7,5A	7,6A	6A	5A	3,2A
Power Boost <=60°C/60s	9A	9,1A	7,2A	6A	3,8A
Stability at Load Switch	±0,1%	±0,5%	±0,3%	±0,2%	±0,1%
Transient Time	< 1ms				
Efficiency	90%				
Basic load	Idling-proof				
Short Circuit Protection	Continuous				
Ambient Operation Temperature	-20°C... +70°C				
Cooling	Natural convection				
Temperature Monitoring	Upon request				
Dimensions (WxHxD)	50x102x96mm				
IP-Range	IP20				
Safety Norms	CSA UL CE according to IEC60950-1				
Safety IEC	EN60950-1 EN50178 EN60204-1				
Safety Class 1(A)	VDE0100 VDE0805				
Input to Output Isolation	3000Vac				
Climatic Class, Humidity	3k3, 90% non condensing				
EMI	EN55022B EN61000-3-2A				
EMS	EN61000-6-2,3				
MTBF IEC61709	500000h				
Power Good Relay	Galvanic insulated 60Vdc				
Sense operation	Yes 5V-model ±200mV				
Remote Shutdown	No				
Ordering options	Protective Coating				
Options	see Datasheet				



## HPW00801

- DIN-Rail Power Supply 1phase fix output TS35mm DIN EN 50022
- Active Inrush Current Protection 0,7Apeak/0,5Arms
- Active PFC
- Temperature Control
- Clean C/V chart without foldback, ideal for dc drives and dc-UPS

□

## HPW00801

Model	HPW00801			
Power	80W			
Nominal AC Input	100... 240Vac			
Input Range AC	90... 265Vac			
Input Range DC	120... 375Vdc			
Input Frequency	47... 63Hz			
Hold-Up Time	50ms			
Inrush Current Protection	495mAeff / 700mApeak active protection $\pm 5\%$			
Autostart	Soft start			
Output Voltage	12V	24V	36V	48V
Adjust Range Uout	11,2... 14V	22,5... 28,5V	30,0... 38,5V	40,5... 50,7V
Ripple & Noise mVss	20mV	20mV	40mV	40mV
Nominal Output Current	6.0A	3.3A	2.2A	1.6A
Power Boost $\leq 60^\circ\text{C}/60\text{s}$	10%			
Stability at Load Switch	$\pm 0,5\%$			
Transient Time				
Efficiency	86%			
Basic load	Idling-proof			
Short Circuit Protection	Continuous			
Ambient Operation Temperature	$-15^\circ\text{C} \dots +70^\circ\text{C}$			
Cooling	Natural convection			
Temperature Monitoring	Yes			
Dimensions (WxHxD)	50x124x96mm			
IP-Range	IP20			
Safety Norms	CSA UL CE according to IEC60950-1			
Safety IEC	EN60950-1 EN50178			
Safety Class 1(A)	VDE0100 VDE0805			
Input to Output Isolation	3000Vac			
Climatic Class, Humidity	3k3, 90% non condensing			
EMI	EN55022B EN61000-3-2D			
EMS	EN61000-6-2,3			
MTBF IEC61709	600000h			
Power Good Relay	galvanic insulated 60Vdc			
Sense operation	No			
Remote Shutdown	No			
Features	Active PFC			
Ordering options	Protective coating			
Options	See datasheet			



## HSW00901

- DIN-Rail 1phase Fixed Output TS35mm DIN EN 50022

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## HSW00901

Model	HSW00901					
Power	90W					
Nominal AC Input	100... 240Vac					
Input Range AC	90... 265Vac					
Input Range DC	110... 375Vdc					
Input Frequency	47... 63Hz					
Hold-Up Time	40ms					
Inrush Current Protection	NTC < 32A					
Autostart	Soft start					
Output Voltage	24V	36V	48V	60V	72V	140V
Adjust Range Vout	22,5... 28,5V	34,2... 39,6V	45,6... 52,8V	57... 66V	68... 68V	133... 155V
Ripple & Noise mVpp	50mV	50mV	60mV	100mV	120mV	120mV
Nominal Output Current	3,8A	2,5A	1,9A	1,5A	1,3A	640mA
Power Boost <=60°C/60s	4,6A	3,0A	2,7A	1,8A	1,6A	770mA
Stability at Load Switch	±0,1%	±0,1%	±0,1%	±0,1%	±0,3%	±0,5%
Transient Time	< 1ms					
Efficiency	90%					
Basic load	Idling-proof					
Short Circuit Protection	Short circuit protected					
Ambient Operation Temperature	-20°C... +70°C					
Cooling	Natural Convection					
Temperature Monitoring	Upon request					
Dimensions (WxHxD)	50x102x96mm					
IP-Range	IP20					
Safety Norms	CSA UL CE according to IEC60950-1					
Safety IEC	EN60950-1 EN50178 EN60204-1					
Safety Class 1(A)	VDE0100 VDE0805					
Input to Output Isolation	3000Vac					
Climatic Class, Humidity	3k3, 90% non condensing					
EMI	EN55022B EN61000-3-2A					
EMS	EN61000-6-2,3					
MTBF IEC61709	500000h					
Power Good Relay	galvan. insulated 60Vdc					
Ordering options	Protective Coating					
Options	see Datasheet					





## HSE01201

- DIN-Rail 1phase Fixed Output TS35mm DIN EN 50022

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## HSE01201

Model	HSE01201							
Power	120W							
Nominal AC Input	115/230Vac select							
Input Range AC	90..115Vac/184..265Vac							
Input Range DC	250... 375Vdc							
Input Frequency	47... 63Hz							
Hold-Up Time	30ms							
Inrush Current Protection	NTC < 16A							
Autostart	Soft start							
Output Voltage	12V	24V	36V	48V	60V	72V	110V	
Adjust Range Vout	11,4..13,2V	22,5... 28,5V	34,2V... 39,6V	45,6... 42,8V	57... 66V	68... 86V	100... 120V	
Ripple & Noise mVpp	50mV	65mV	65mV	100mV	120mV	120mV	200mV	
Nominal Output Current	8A	5A	3,3A	2,5A	2A	1,7A	1,1A	
Power Boost <=60°C/60s	9,6A	6A	4A	3A	2,4A	2A	1,3A	
Stability at Load Switch	±0,5%							
Transient Time	< 1ms							
Efficiency	91%							
Basic load	Idling-proof							
Short Circuit Protection	Continuous							
Ambient Operation Temperature	-20°C... +70°C							
Cooling	Natural convection							
Temperature Monitoring	Upon request							
Dimensions (WxHxD)	50x124x96mm							
IP-Range	IP20							
Safety Norms	CSA UL CE according to IEC60950-1							
Safety IEC	EN60950-1 EN50178 EN60204-1							
Safety Class 1(A)	VDE0100 VDE0805							
Input to Output Isolation	3000Vac							
Climatic Class, Humidity	3k3, 90% non condensing							
EMI	EN55022B EN61000-3-2A							
EMS	EN61000-6-2,3							
MTBF IEC61709	600000h							
Power Good Relay	galvan. insulated 60Vdc							
Ordering options	Protective coating							
Options	See datasheet							



## HPW02401

- DIN-Rail Power Supply 1phase fix output TS35mm DIN EN 50022
- Active Inrush Current Protection
- Active PFC (Power Faktor Korrektion)
- Remote Shutdown
- Temperature Control
- Clean C/V chart without foldback, ideal for dc drives and dc-UPS

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## HPW02401

Model	HPW02401					
Power	240W/312W					
Nominal AC Input	100... 240Vac					
Input Range AC	90... 265Vac					
Input Range DC	120... 375Vdc					
Input Frequency	47... 63Hz					
Hold-Up Time	40ms					
Inrush Current Protection	5A <sub>eff</sub> / 7A <sub>peak</sub> electronic protection $\pm 6\%$					
Autostart	Soft start / Soft start 50ms					
Output Voltage	12V	24V	36V	48V	60V	72V
Adjust Range Vout	9... 18V	18... 30V	30... 43V	43... 53V	53... 72V	68... 86V
Ripple & Noise mVpp	30mV	30mV	60mV	50mV	50mV	60mV
Nominal Output Current 40°/60°C	15/19A	10/13A	6,7/8,7A	5/6,8A	4.0/5.2A	3,3/4,3A
Power Boost $\leq 60^\circ\text{C}/60\text{s}$	18A	12A	8A	6A	5,,2A	4,3A
Stability at Load Switch	$\pm 0,5\%$	$\pm 0,2\%$	$\pm 0,2\%$	$\pm 0,2\%$	$\pm 0,2\%$	$\pm 0,2\%$
Transient Time	< 1ms					
Efficiency	0,92					
Basic load	Idling-proof					
Short Circuit Protection	Continuous					
Ambient Operation Temperature	-20°C... +70°C					
Cooling	Natural convection					
Temperature Monitoring	yes					
Dimensions (WxHxD)	75x130x115mm					
IP-Range	IP20					
Safety Norms	CSA UL CE according to IEC60950-1					
Safety IEC	EN60950-1 EN50178 EN60204-1					
Safety Class 1(A)	VDE0100 VDE0805					
Input to Output Isolation	3000Vac					
Climatic Class, Humidity	3k3, 90% non condensing					
EMI	EN55022B					
EMS	EN61000-6-2,3					
MTBF IEC61709	500000h					
Power Good Relay	Yes					
Remote Shutdown	Yes					
Features	Active PFC					
Ordering options	Protective coating					
Options	See datasheet					



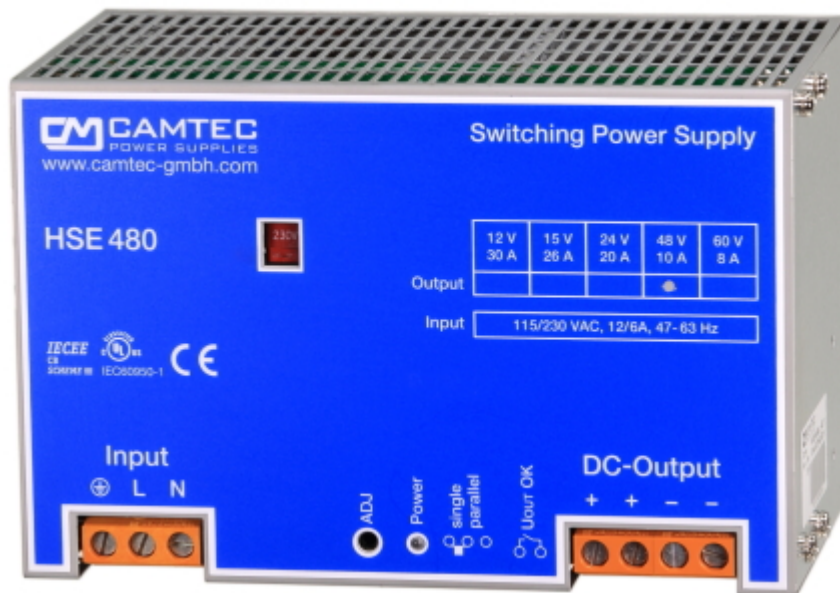
## HSE03201LIRC

- DIN-Rail Power Supply 1phase fix output TS35mm DIN EN 50022
- Active Inrush Current Protection
- Temperature Control
- Clean C/V chart without foldback, ideal for dc drives and dc-UPS

□

## HSE03201LIRC

Model	HSE03201LIRC					
Power	320W					
Nominal AC Input	115/230Vac select					
Input Range AC	90..115Vac/184..265Vac					
Input Range DC	250... 375Vdc					
Input Frequency	47... 63Hz					
Hold-Up Time	30ms					
Inrush Current Protection	10,6Aeff / 15Apeak active protection $\pm 6\%$					
Autostart	Soft start 20ms					
Output Voltage	12V	15V	24V	36V	48V	60V
Adjust Range Vout	11,4... 14,4V	14,2... 18V	22,5... 28,5V	34,2... 43,2V	45,6... 57,6V	57... 72V
Ripple & Noise mVpp	30mV	30mV	20mV	30mV	50mV	50mV
Nominal Output Current	18A	17A	13,5A	8,9A	6,7A	5,4A
Power Boost $\leq 60^{\circ}\text{C}/60\text{s}$	21,6A	20,4A	16,2A	10,7A	8A	6,5A
Stability at Load Switch	$\pm 0,5\%$					
Transient Time	< 1ms					
Efficiency	91%					
Basic load	Idling-proof					
Short Circuit Protection	Continuous					
Ambient Operation Temperature	$-20^{\circ}\text{C} \dots +70^{\circ}\text{C}$					
Cooling	Natural convection					
Temperature Monitoring	Yes					
Dimensions (WxHxD)	120x124x96mm					
IP-Range	IP20					
Safety Norms	CSA UL CE according to IEC60950-1					
Safety IEC	EN60950-1 EN50178 EN60204-1					
Safety Class 1(A)	VDE0100 VDE0805					
Input to Output Isolation	3000Vac					
Climatic Class, Humidity	3k3, 90% non condensing					
EMI	EN55022B					
EMS	EN61000-6-2,3					
MTBF IEC61709	600000h					
Power Good Relay	Galvanic insulated 60Vdc					
Features	Low Inrush Current Limiter					
Ordering options	Protective Coating					
Options	See datasheet					



## HSE04801

- DIN-Rail Power Supply 1phase fix output TS35mm DIN EN 50022
- Temperature Control
- Clean C/V chart without foldback, ideal for dc drives

□

## HSE04801

Model	HSE04801				
Power	480W				
Nominal AC Input	115/230Vac select				
Input Range AC	90..115Vac/184..265Vac				
Input Range DC	250... 375Vdc				
Input Frequency	47... 63Hz				
Hold-Up Time	40ms				
Inrush Current Protection	NTC <40A				
Autostart	Soft start 20ms				
Output Voltage	12V	15V	24V	36V	48V
Adjust Range Vout	11,4... 14,4V	14,2... 16,5V	22,5... 28,5V	34,2... 39,6V	45,6... 52,8V
Ripple & Noise mVpp	40mV	50mV	50mV	100mV	100mV
Nominal Output Current	30A	26A	20A	13,3A	10A
Power Boost <=60°C/60s	33A	28,6A	22A	14,6A	11A
Stability at Load Switch	±0,5%				
Transient Time	< 1ms				
Efficiency	91%				
Basic load	Idling-proof				
Short Circuit Protection	Short circuit protected				
Ambient Operation Temperature	-20°C... +70°C				
Cooling	Natural convection				
Temperature Monitoring	Yes				
Dimensions (WxHxD)	200x130x114,5mm				
IP-Range	IP20				
Safety Norms	CSA UL CE according to IEC60950-1				
Safety IEC	EN60950-1 EN50178 EN60204-1				
Safety Class 1(A)	VDE0100 VDE0805				
Input to Output Isolation	3000Vac				
Climatic Class, Humidity	3k3, 90% non condensing				
EMI	EN55022B				
EMS	EN61000-6-2,3				
MTBF IEC61709	500000h				
Power Good Relay	Yes				
Ordering options	Protective coating				
Options	See datasheet				





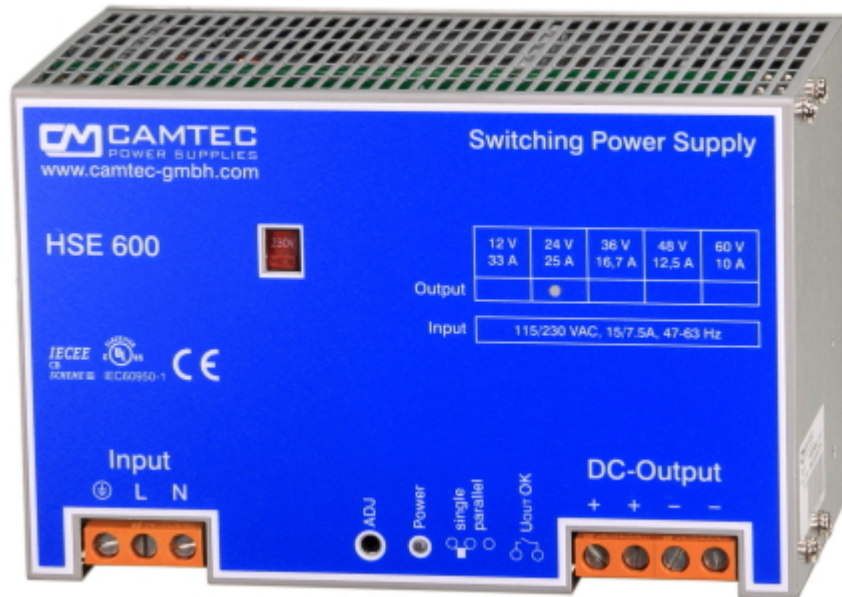
## HPV04801

- DIN-Rail Power Supply 1phase fix output TS35mm DIN EN 50022
- Temperature Control
- Clean C/V chart without foldback, ideal for dc drives

□

## HPV04801

Model	HPV04801			
Power	480W			
Nominal AC Input	115/230Vac select			
Input Range AC	90..115Vac/184..265Vac			
Input Range DC	250... 375Vdc			
Input Frequency	47... 63Hz			
Hold-Up Time	40ms			
Inrush Current Protection	NTC <40A			
Autostart	Soft start 20ms			
Output Voltage	72V	110V	150V	240V
Adjust Range Vout	58... 86V	86... 132V	132... 180V	180... 240V
Ripple & Noise mVpp	150mV	200mV	200mV	300mV
Nominal Output Current	6,7A	4,4A	3,2A	2,2A
Power Boost <=60°C/60s	7,2A	5,3A	3,8A	2,6A
Stability at Load Switch	±0,5%			
Transient Time	< 1ms			
Efficiency	93 %			
Basic load	Idling-proof			
Short Circuit Protection	Continuous			
Ambient Operation Temperature	-20°C... +70°C			
Cooling	Natural Convection			
Temperature Monitoring	Yes			
Dimensions (WxHxD)	200x130x114,5mm			
IP-Range	IP20			
Safety Norms	CSA UL CE according to IEC60950-1			
Safety IEC	EN60950-1 EN50178 EN60204-1			
Safety Class 1(A)	VDE0100 VDE0805			
Input to Output Isolation	3000Vac			
Climatic Class, Humidity	3k3, 95% non condensing			
EMI	EN55022B			
EMS	EN61000-6-2,3			
MTBF IEC61709	400000h			
Power Good Relay	Yes, Option			
Ordering options	Protective coating, Power Good Relay (PG)			
Options	See datasheet			



## HSE06001

- DIN-Rail Power Supply 1phase fix output TS35mm DIN EN 50022
- Temperature Control
- Clean C/V chart without foldback, ideal for dc drives

□

## HSE06001

Model	HSE06001		
Power	600W		
Nominal AC Input	115/230Vac select		
Input Range AC	90..115Vac/184..265Vac		
Input Range DC	250... 375Vdc		
Input Frequency	47... 63Hz		
Hold-Up Time	30ms		
Inrush Current Protection	NTC <81A		
Autostart	Soft start 20ms		
Output Voltage	24V	36V	48V
Adjust Range Vout	22,5... 28,5V	34,2... 39,6V	45,6... 52,8V
Ripple & Noise mVpp	50mV	100mV	100mV
Nominal Output Current	25A	16,7A	12,5A
Power Boost <=60°C/60s	27,5A	18,4A	13,8A
Stability at Load Switch	±0,5%		
Transient Time	< 1ms		
Efficiency	91%		
Basic load	Idling-proof		
Short Circuit Protection	Continuous		
Ambient Operation Temperature	-20°C... +70°C		
Cooling	Natural convection		
Temperature Monitoring	Yes		
Dimensions (WxHxD)	200x130x114,5mm		
IP-Range	IP20		
Safety Norms	CSA UL CE according to IEC60950-1		
Safety IEC	EN60950-1 EN50178 EN60204-1		
Safety Class 1(A)	VDE0100 VDE0805		
Input to Output Isolation	3000Vac		
Climatic Class, Humidity	3k3, 95% non condensing		
EMI	EN55022B		
EMS	EN61000-6-2,3		
MTBF IEC61709	500000h		
Power Good Relay	yes		
Ordering options	Protective coating		
Options	See datasheet		



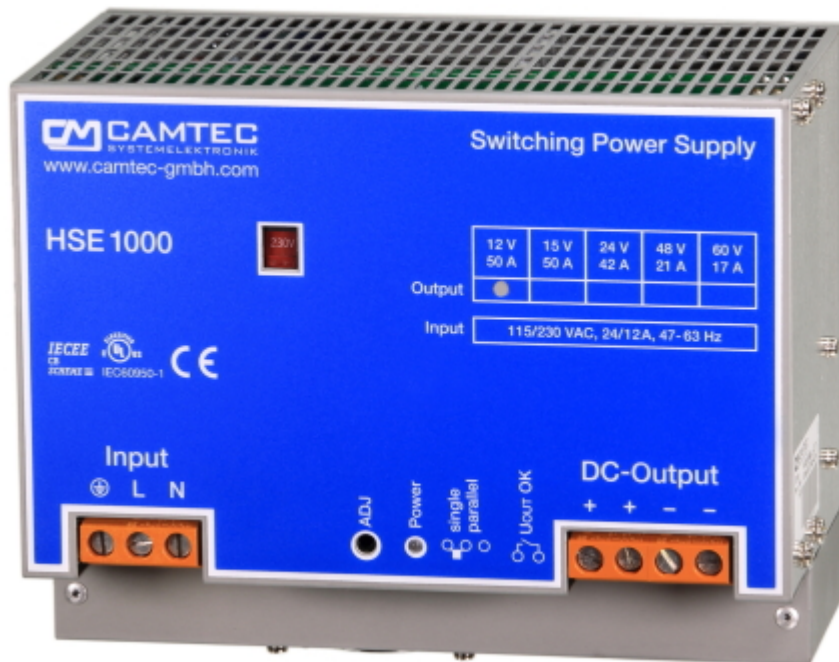
## HSE07201

- DIN-Rail Power Supply 1phase fix output TS35mm DIN EN 50022
- Temperature Control
- Clean C/V chart without foldback, ideal for dc drives

□

## HSE07201

Model	HSE07201				
Power	720W				
Nominal AC Input	115/230Vac select				
Input Range AC	90..115Vac/184..265Vac				
Input Range DC	250... 375Vdc				
Input Frequency	47... 63Hz				
Hold-Up Time	30ms				
Inrush Current Protection	NTC < 81A (MCB 16C)				
Autostart	Soft start				
Output Voltage	12V	24V	36V	48V	60V
Adjust Range Vout	11,4... 14,4V	22,5... 28,5V	34,2... 39,6V	45,6... 52,8V	57V... 66V
Ripple & Noise mVpp	50mV	50mV	100mV	100mV	120mV
Nominal Output Current	40A	30A	20A	15A	12A
Power Boost <=60°C/60s	44A	33A	22A	16,5A	13,2A
Stability at Load Switch	±0,5%				
Transient Time	< 1ms				
Efficiency	91%				
Basic load	Idling-proof				
Short Circuit Protection	Continuous				
Ambient Operation Temperature	-20°C... +70°C				
Cooling	Natural convection				
Temperature Monitoring	Yes				
Dimensions (WxHxD)	200x130x114,5mm				
IP-Range	IP20				
Safety Norms	CSA UL CE according to IEC60950-1				
Safety IEC	EN60950-1 EN50178 EN60204-1				
Safety Class 1(A)	VDE0100 VDE0805				
Input to Output Isolation	3000Vac				
Climatic Class, Humidity	3k3, 95% non condensing				
EMI	EN55022B				
EMS	EN61000-6-2,3				
MTBF IEC61709	500000h				
Power Good Relay	Galvanic insulated 60Vdc				
Features	48V model with 4,2KV input to output insulation				
Ordering options	Protective coating				
Options	See datasheet				



## HSE10001

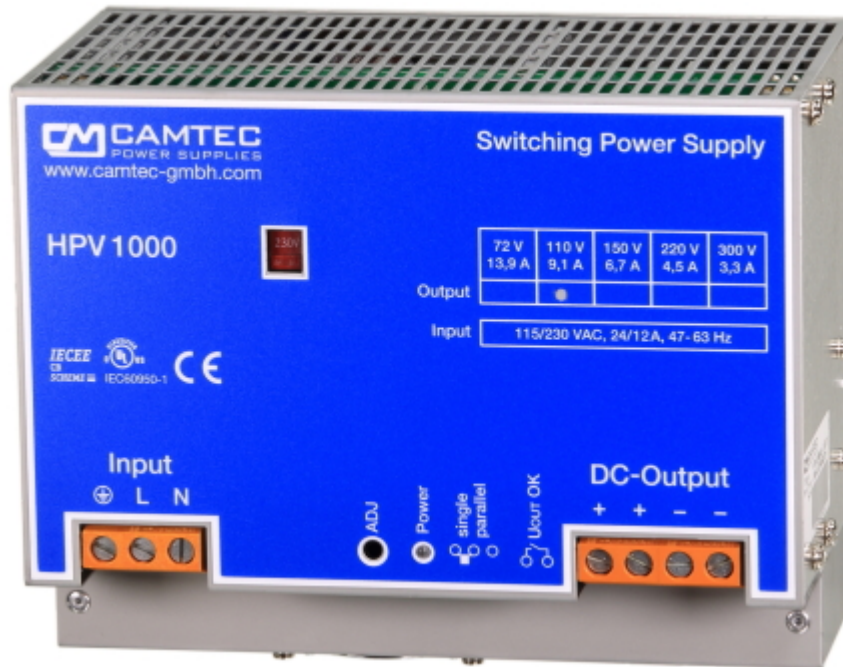
- DIN-Rail Power Supply 1phase fix output TS35mm DIN EN 50022
- Temperature Control
- Clean C/V chart without foldback, ideal for dc drives

□

## HSE10001

Model	HSE10001				
Power	1008W				
Nominal AC Input	115/230Vac select				
Input Range AC	90..115Vac/184..265Vac				
Input Range DC	250... 375Vdc				
Input Frequency	47... 63Hz				
Hold-Up Time	30ms				
Inrush Current Protection	< 81A				
Autostart	Soft start 100ms				
Output Voltage	12V	15V	24V	36V	48V
Adjust Range Vout	11,4... 14,4V	14,2... 16,5V	22,5... 28,5V	34,2... 39,6V	45,6... 52,8V
Ripple & Noise mVpp	50mV	50mV	50mV	100mV	120mV
Nominal Output Current	50A	50A	42A	28A	21A
Power Boost <=60°C/60s	55A	55A	46,2A	31A	23A
Stability at Load Switch	±0,5%				
Transient Time	< 1ms				
Efficiency	91%				
Basic load	Idling-proof				
Short Circuit Protection	Continuous				
Ambient Operation Temperature	-20°C... +70°C				
Cooling	Natural convection & controlled fan from Papst				
Temperature Monitoring	Yes				
Dimensions (WxHxD)	200x156x114,5mm				
IP-Range	IP20				
Safety Norms	CSA UL CE according to IEC60950-1				
Safety IEC	EN60950-1 EN50178 EN60204-1				
Safety Class 1(A)	VDE0100 VDE0805				
Input to Output Isolation	3000Vac				
Climatic Class, Humidity	3k3, 95% non condensing				
EMI	EN55022B				
EMS	EN61000-6-2,3				
MTBF IEC61709	500000h				
Power Good Relay	Galvanic insulated 60Vdc				
Options	See datasheet				





## HPV10001

- DIN-Rail Power Supply 1phase fix output TS35mm DIN EN 50022
- Temperature Control
- Clean C/V chart without foldback, ideal for dc drives

□

## HPV10001

Model	HPV10001			
Power	1008W			
Nominal AC Input	115/230Vac			
Input Range AC	90..115Vac/186..265Vac			
Input Range DC	250... 375Vdc			
Input Frequency	47... 63Hz			
Hold-Up Time	30ms			
Inrush Current Protection	NTC < 84A			
Autostart	Soft start 100ms			
Output Voltage	72V	110V	150V	240V
Adjust Range Vout	58... 86V	86... 132V	132... 180V	180... 240V
Ripple & Noise mVpp	200mV	250mV	250mV	300mV
Nominal Output Current	13,9A	9,1A	6,7A	4,6A
Power Boost <=60°C/60s	15,3A	10A	7,4A	5A
Stability at Load Switch	±0,5%			
Transient Time	< 1ms			
Efficiency	0,93			
Basic load	Idling-proof			
Short Circuit Protection	Continuous			
Ambient Operation Temperature	-20°C... +70°C			
Cooling	Natural convection + controlled fan from Papst			
Temperature Monitoring	Yes			
Dimensions (WxHxD)	200x156x114,5mm			
IP-Range	IP20			
Safety Norms	CSA UL CE according to IEC60950-1			
Safety IEC	EN60950-1 EN50178 EN60204-1			
Safety Class 1(A)	VDE0100 VDE0805			
Input to Output Isolation	3000Vac			
Climatic Class, Humidity	3k3, 95% non condensing			
EMI	EN55022B			
EMS	EN61000-6-2,3			
MTBF IEC61709	500000h			
Power Good Relay	Yes, Option			
Ordering options	Protective coating, Power Good Relais (PG)			
Options	See datasheet			



## RED00202 Redundant O-Ring Modul 1000W Continuous Load

- N+1 Power Redundant Module DIN-Rail TS35mm
- 2x 1000W Inputs, 1x 1000W Output
- Lower voltage margin adjustable
- Input & Output = floating
- Decoupling Diode = fast Schottky
- Voltage Drop typ. 500mV

□

## RED00202A

Model	RED00202A
Maximum Current	Up to 2x50A per connection
V1in/V2in	+ 12 up to 28Vdc (36V) 2x 50A
LED	Control-LED
Monitoring Relay	Integrated (floating)
Cooling	Natural convection
Efficiency	> 97% (24V)
Load connection	Screw-type terminal
Alarm contact	Screw-type terminal plug-in
Ambient temperature	-20°C ... +70°C
Dimensions WxHxD	62 x 130 x 115mm
Special Features	High reliable
	Compact outline
	Reverse polarity protection
	Alarm monitoring loss of U1/U2

## RED00202B

Model	RED00202B
Maximum Current	Up to 2x 50A per connection
V1in/V2in	+ 36Vdc up to 60Vdc (75V) 2x 50A
LED	Control-LED
Monitoring Relay	Integrated (floating)
Cooling	Natural convection
Efficiency	> 97% (24V)
Load connection	Screw-type terminal
Alarm contact	Screw-type terminal plug-in
Ambient temperature	-20°C ... +70°C
Dimensions WxHxD	62 x 130 x 115mm
Special Features	High reliable
	Compact outline
	Reverse polarity protection
	Alarm monitoring loss of U1/U2

## RED00202C

Model	RED00202C
Maximum Current	Up to 2x 50A per connection
V1in/V2in	+ 90Vdc up to 125Vdc (140Vdc) 2x 50A
LED	Control-LED
Monitoring Relay	Integrated (floating)
Cooling	Natural convection
Efficiency	> 97% (24V)
Load connection	Screw-type terminal
Alarm contact	Screw-type terminal plug-in
Ambient temperature	-20°C ... +70°C
Dimensions WxHxD	62 x 130 x 115mm
Special Features	High reliable
	Compact outline
	Reverse polarity protection
	Alarm monitoring loss of U1/U2

**Category:**

**AC/DC Redundant DIN-Rail 1phase**



## HSR03201LIRC Redundant O-Ring

- DIN-Rail Power Supply 1phase fix output TS35mm DIN EN 50022
- Active Inrush Current Protection
- Temperature Control
- Clean C/V chart without foldback, ideal for dc drives and dc-UPS
- Redundant Power Supply
- Built in O-ring diode

□

## HSR03201LIRC Redundant

Model	HSR03201LIRC Redundant		
Power	320W		
Nominal AC Input	115/230Vac select		
Input Range AC	90..115Vac/184..265Vac		
Input Range DC	250... 375Vdc		
Input Frequency	47... 63Hz		
Hold-Up Time	40ms		
Inrush Current Protection	10,6Aeff / 15Apeak active protection $\pm 6\%$		
Autostart	Soft start 20ms		
Output Voltage	24V	48V	60V
Adjust Range Vout	22,5... 28,8V	45,6... 52,8V	57... 66V
Ripple & Noise mVpp	20mV	50mV	50mV
Nominal Output Current	13,5A	6,7A	5,4A
Power Boost $\leq 60^{\circ}\text{C}/60\text{s}$	16,2A	8A	6,5A
Stability at Load Switch	$\pm 0,3\%$	$\pm 0,1\%$	$\pm 0,1\%$
Transient Time	$< 1\text{ms}$		
Efficiency	91%		
Basic load	Idling-proof		
Short Circuit Protection	Continuous		
Ambient Operation Temperature	$-20^{\circ}\text{C} \dots +70^{\circ}\text{C}$		
Cooling	Natural convection		
Temperature Monitoring	Yes		
Dimensions (WxHxD)	120x124x96mm		
IP-Range	IP20		
Safety Norms	CSA UL CE according to IEC60950-1		
Safety IEC	EN60950-1 EN50178 EN60204-1		
Safety Class 1(A)	VDE0100 VDE0805		
Input to Output Isolation	3000Vac		
Climatic Class, Humidity	3k3, 95% non condensing		
EMI	EN55022B		
EMS	EN61000-6-2,3		
MTBF IEC61709	600000h		
Power Good Relay	Yes		
Features	Built-in redundant O-ring diode, low inrush current		
Ordering options	Protective coating		
Options	See datasheet		



**Category:**

**AC/DC DIN-Rail 3phase**



## HSD04801

- DIN-Rail Power Supply 3phase fix output TS35mm DIN EN 50022
- Active Inrush Current Protection
- Active PFC
- Temperature Control
- Clean C/V chart without foldback, ideal for dc drives and dc-UPS

□

## HSD04801

Model	HSD04801					
Power	480W					
Nominal AC Input	3PH 400... 500Vac					
Input Range AC	3PH 340... 575Vac					
Input Range DC	450... 820Vdc					
Input Frequency	47... 63Hz					
Hold-Up Time	12ms					
Inrush Current Protection	3,5Aeff / 5Apeak active protection $\pm 6\%$					
Autostart	Soft start 5ms					
Output Voltage	12V	24V	36V	48V	60V	72V
Adjust Range Vout	11,6... 13,8V	22,5... 28,5V	32,8... 38V	45,6... 52,8V	57... 66V	68... 86V
Ripple & Noise mVpp	50mV	50mV	100mV	100mV	120mV	150mV
Nominal Output Current	30A	20A	13,3A	10A	8A	6,7A
Power Boost $\leq 60^{\circ}\text{C}/60\text{s}$	36A	24A	16A	12A	9,6A	8A
Stability at Load Switch	$\pm 0,5\%$					
Transient Time	< 1ms					
Efficiency	92,50%					
Basic load	Idling-proof					
Short Circuit Protection	Continuous					
Ambient Operation Temperature	$-20^{\circ}\text{C} \dots +70^{\circ}\text{C}$					
Cooling	Natural convection					
Temperature Monitoring	yes					
Dimensions (WxHxD)	150x130x114,5mm					
IP-Range	IP20					
Safety Norms	CSA UL CE according to IEC60950-1					
Safety IEC	EN60950-1 EN50178 EN60204-1					
Safety Class 1(A)	VDE0100 VDE0805					
Input to Output Isolation	3000Vac					
Climatic Class, Humidity	3k3, 95% non condensing					
EMI	EN55022B					
EMS	EN61000-6-2,3					
MTBF IEC61709	600000h					
Power Good Relay	Yes					
Features	PFC, 2phase Operation					
Ordering options	Protective coating					
Options	See datasheet					



## HSD10001

- DIN-Rail Power Supply 3phase fix output TS35mm DIN EN 50022
- Active Inrush Current Protection
- Active PFC
- Temperature Control
- Clean C/V chart without foldback, ideal for dc drives and dc-UPS
- Remote Shutdown

□

## HSD10001

Model	HSD10001						
Power	960W/1080W						
Nominal AC Input	3PH 400... 500Vac						
Input Range AC	3PH 340... 575Vac						
Input Range DC	450... 820Vdc						
Input Frequency	47... 63Hz						
Hold-Up Time	12ms						
Inrush Current Protection	14,2Aeff / 20Apeak active protection $\pm 6\%$						
Autostart	Soft start 50ms						
Output Voltage	12V	24V	36V	48V	60V	72V	
Adjust Range Vout	10,,, 17V	22... 30V	32... 43V	43... 53V	53... 72V	68... 86V	
Ripple & Noise mVpp	50mV	50mV	80mV	100mV	100mV	150mV	
Nominal Output Current 60°/40°C	50/55A	40/44A	28/31A	21/23A	17/18A	14/15A	
Power Boost $\leq 60^\circ\text{C}/60\text{s}$	55A	44A	30,8A	23,1A	18,7A	15,4A	
Stability at Load Switch	$\pm 0,5\%$	$\pm 0,2\%$	$\pm 0,2\%$	$\pm 0,2\%$	$\pm 0,2\%$	$\pm 0,2\%$	
Transient Time	< 1ms						
Efficiency	92,50%						
Basic load	Idling-proof						
Short Circuit Protection	Continuous						
Ambient Operation Temperature	-20°C... +70°C						
Cooling	Natural convection						
Temperature Monitoring	Yes						
Dimensions (WxHxD)	200x131,5x124mm						
IP-Range	IP20						
Safety Norms	CSA UL CE according to IEC60950-1						
Safety IEC	EN60950-1 EN50178 EN60204-1						
Safety Class 1(A)	VDE0100 VDE0805						
Input to Output Isolation	3000Vac						
Climatic Class, Humidity	3k3, 95% non condensing						
EMI	EN55022B						
EMS	EN61000-6-2,3						
MTBF IEC61709	500000h						
Power Good Relay	Yes						
Remote Shutdown	Yes						
Features	Active PFC, 2phase operation						
Ordering options	Protective coating						
Options	See datasheet						

**Category:**

**AC/DC Programmable Laboratory Power Supply**



## HSEureg04801 Lab Power Supply DIN-Rail

- Cost effective 480W V-programmable, Laboratory Power Supply scalable for test bench
- Multifunctional analogue Interface 0-10V/0-20mA
- Remote Shutdown
- Sensing

□

## HSEUreg04801

Model	HSEUreg04801							
Power	480W							
Nominal Input	115/230Vac select							
Input Range AC	90..115Vac/184..265Vac							
Input Range DC	250... 375Vdc							
Input Frequency	47... 63Hz							
Hold-Up Time	50ms							
Inrush Current Protection	NTC <41A							
Autostart	Soft start 100ms							
Programmable Output Voltage	0-15V	0-30V	0-50V	0-90V	0-130V	0-180V	0-240V	
Continuous Current (fix)	26A	16A	10A	5,3A	3,7A	2,7A	2A	
Ripple & Noise mVpp	40mV	50mV	100mV	150mV	200mV	300mV	400mV	
Powerboost	28,6A	17,6A	11A	5,8A	4,1A	3A	2,2A	
Stability at Load Switch	±0,5%							
Transient Time	< 1ms							
Efficiency	90%							
Basic Load	Idling-proof							
Short Circuit Protection	Continuous							
Ambient Operating Temperature	-20°C... +70°C							
Cooling	Natural convection							
Temperature Monitoring	Yes							
Dimensions (WxHxD)	200x130x114,5mm							
IP-Range	IP20							
Safety Norms	CSA UL CE according to IEC60950-1							
Safety IEC	EN60950-1 EN50178 EN60204-1							
Safety Class 1(A)	VDE0100 VDE0805							
Input to Output Isolation	3000Vac							
Climatic Class, Humidity	3k3, 95% non condensing							
EMI	EN55022B							
EMS	EN61000-6-2,3							
MTBF IEC61709	400000h							
Programming Interface Voltage	0... 10Vdc, 0-20mA							
Programming Interface Current	No							
Monitoring Interface Voltage	No							
Monitoring Interface Current	No							
Power Good Relay	No							
Sense Operation	Yes							
Remote Shutdown	Yes							
Reference Voltage	No							
Ordering Options	Protective coating, 4-20mA interface							
Options	Isolating transformer for analogue interface, wall mount							





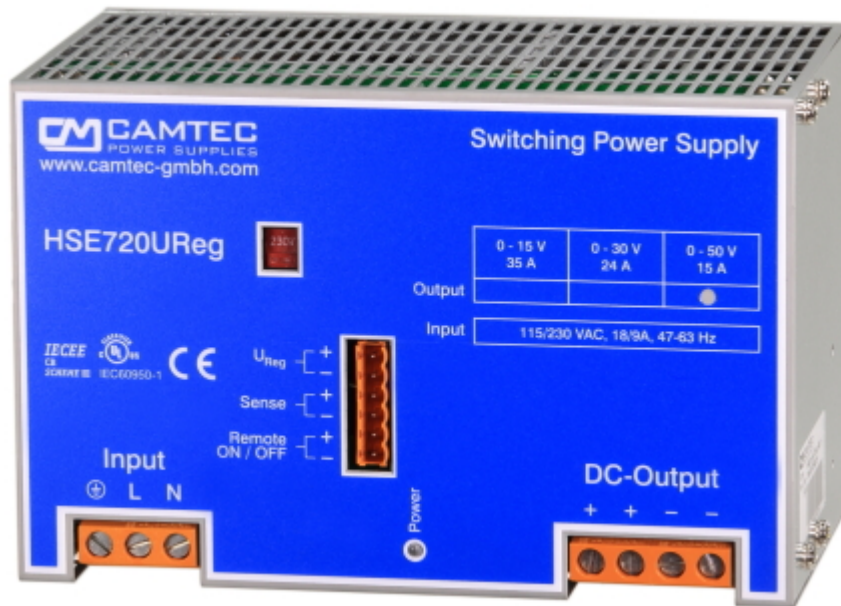
## HSEuireg04801 Lab Power Supply DIN-Rail

- 480W C/V programmable, Laboratory Power Supply scalable for test bench
- Multifunctional analogue Interface 0-5V/0-10V/0-20mA/4-20mA
- Real Time Monitoring

□

## HSEUIreg04801

Model	HSEUIreg04801						
Power	480W						
Nominal Input	115/230Vac select						
Input Range AC	90..115Vac/184..265Vac						
Input Range DC	250... 375Vdc						
Input Frequency	47... 63Hz						
Hold-Up Time	50ms						
Inrush Current Protection	9,8Aeff / 13,8Apeak active limiter $\pm 6\%$						
Autostart	Soft start						
Programmable Output Voltage	0-18V	0-30V	0-50V	0-90V	0-130V	0-180V	0-240V
Programmable Output Current	0-40A	0-24A	0-15A	0-8A	0-5,5A	0-4A	0-3A
Ripple & Noise mVpp	40mV	40mV	100mV	150mV	200mV	300mV	400mV
Stability at Load Switch	$\pm 0,2\%$						
Transient Time	< 1ms						
Efficiency	90%						
Basic Load	Idling-proof						
Short Circuit Protection	Continuous						
Ambient Operating Temperature	-20°C... +70°C						
Cooling	Natural convection						
Temperature Monitoring	Yes						
Dimensions (WxHxD)	200x130x114,5mm						
IP-Range	IP20						
Safety Norms	CSA UL CE according to IEC60950-1						
Safety IEC	EN60950-1 EN50178 EN60204-1						
Safety Class 1(A)	VDE0100 VDE0805						
Input to Output Isolation	3000Vac						
Climatic Class, Humidity	3k3, 95% non condensing						
EMI	EN55022B						
EMS	EN61000-6-2,3						
MTBF IEC61709	400000h						
Programming Interface Voltage	0... 5Vdc, 0... 10Vdc, 0-20mA, 4-20mA						
Programming Interface Current	0... 5Vdc, 0... 10Vdc, 0-20mA, 4-20mA						
Monitoring Interface Voltage	0... 5Vdc, 0... 10Vdc						
Monitoring Interface Current	0... 5Vdc, 0... 10Vdc						
Power Good Relay	Yes						
Sense Operation	Yes						
Remote Shutdown	Yes						
Reference Voltage	Yes						
Ordering Options	Protective coating						
Options	Isolating transformer for analogue interface, wall mount, USB interface						



## HSEureg07201 Lab Power Supply DIN-Rail

- Cost effective 720W V-programmable, Laboratory Power Supply scalable for test bench
- Multifunctional analogue Interface 0-10V/0-20mA
- Remote Shutdown
- Sensing

□

## HSEUreg07201

Model	HSEUreg07201						
Power	720W						
Nominal Input	115/230Vac select						
Input Range AC	90..115Vac/184..265Vac						
Input Range DC	250... 375Vdc						
Input Frequency	47... 63Hz						
Hold-Up Time	40ms						
Inrush Current Protection	NTC						
Autostart	Soft start 100ms						
Programmable Output Voltage	0-15V	0-30V	0-50V	0-90V	0-130V	0-180V	0-240V
Continuous Current (fix)	35A	24A	15A	8A	5,5A	4A	3A
Ripple & Noise mVpp	40mV	50mV	100mV	150mV	200mV	200mV	320mV
Powerboost	38,5A	26,4A	16,5A	8,8A	6,1A	4,4A	3,3A
Stability at Load Switch	±0,5%						
Transient Time	< 1ms						
Efficiency	90%						
Basic Load	Idling-proof						
Short Circuit Protection	Continuous						
Ambient Operating Temperature	-20°C... +70°C						
Cooling	Natural convection						
Temperature Monitoring	Yes						
Dimensions (WxHxD)	200x130x114,5mm						
IP-Range	IP20						
Safety Norms	CSA UL CE according to IEC60950-1						
Safety IEC	EN60950-1 EN50178 EN60204-1						
Safety Class 1(A)	VDE0100 VDE0805						
Input to Output Isolation	3000Vac						
Climatic Class, Humidity	3k3, 95% non condensing						
EMI	EN55022B						
EMS	EN61000-6-2,3						
MTBF IEC61709	400000h						
Programming Interface Voltage	0... 10Vdc, 0-20mA						
Programming Interface Current	No						
Monitoring Interface Voltage	No						
Monitoring Interface Current	No						
Power Good Relay	No						
Sense Operation	Yes						
Remote Shutdown	Yes						
Reference Voltage	No						
Ordering Options	Protective coating, 4-20mA interface						
Options	Isolating transformer for analogue interface, wall mount						



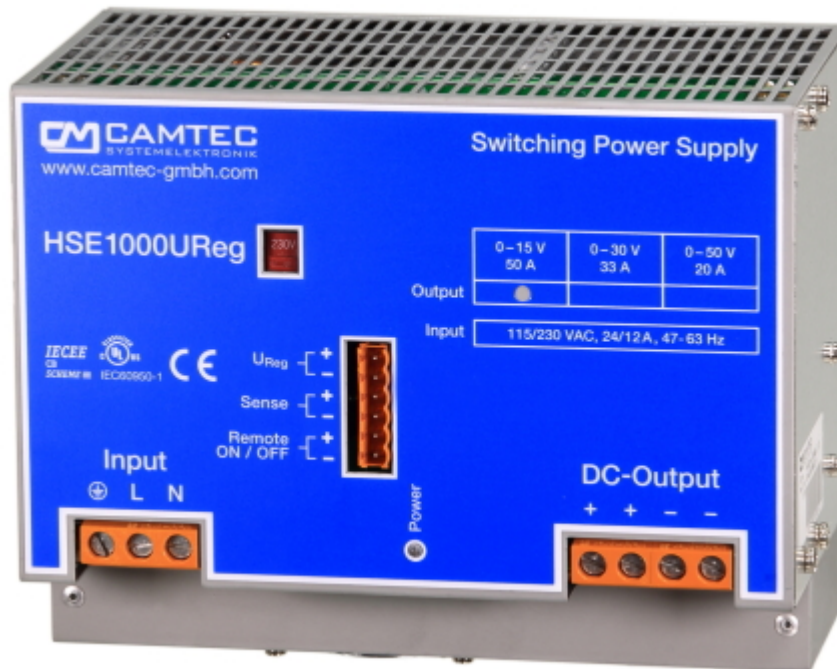
## HSEuireg07201 Lab Power Supply DIN-Rail

- 720W C/V programmable, Laboratory Power Supply scalable for test bench
- Multifunctional analogue Interface 0-5V/0-10V/0-20mA/4-20mA
- Real Time Monitoring

□

## HSEUIreg07201

Model	HSEUIreg07201						
Power	720W						
Nominal Input	115/230Vac select						
Input Range AC	90..115Vac/184..265Vac						
Input Range DC	250... 375Vdc						
Input Frequency	47... 63Hz						
Hold-Up Time	40ms						
Inrush Current Protection	9,8Aeff / 13,8Apeak active limiter $\pm 6\%$						
Autostart	Soft start						
Programmable Output Voltage	0-18V	0-30V	0-50V	0-90V	0-130V	0-180V	0-240V
Programmable Output Current	0-40A	0-30A	0-18A	0-10A	0-7A	0-5A	0-3,8A
Ripple & Noise mVss	40mV	50mV	100mV	150mV	200mV	200mV	320mV
Powerboost	See datasheet						
Stability at Load Switch	$\pm 0,2\%$						
Transient Time	< 1ms						
Efficiency	90%						
Basic Load	Idling-proof						
Short Circuit Protection	Continuous						
Ambient Operating Temperature	-20°C... +70°C						
Cooling	Natural convection						
Temperature Monitoring	Yes						
Dimensions (WxHxD)	200x130x114,5mm						
IP-Range	IP20						
Safety Norms	CSA UL CE according to IEC60950-1						
Safety IEC	EN60950-1 EN50178 EN60204-1						
Safety Class 1(A)	VDE0100 VDE0805						
Input to Output Isolation	3000Vac						
Climatic Class, Humidity	3k3, 95% non condensing						
EMI	EN55022B						
EMS	EN61000-6-2,3						
MTBF IEC61709	400000h						
Programming Interface Voltage	0... 5Vdc, 0... 10Vdc, 0-20mA, 4-20mA						
Programming Interface Current	0... 5Vdc, 0... 10Vdc, 0-20mA, 4-20mA						
Monitoring Interface Voltage	0... 5Vdc, 0... 10Vdc						
Monitoring Interface Current	0... 5Vdc, 0... 10Vdc						
Power Good Relay	Yes						
Sense Operation	yes						
Remote Shutdown	yes						
Reference Voltage	yes						
Ordering Options	Protective coating						
Options	Isolating transformer for analogue interface, wall mount, USB interface						



## HSEureg10001 Lab Power Supply DIN-Rail

- Cost effective 1000W V programmable, 5W/Cubic-Inch High Density Laboratory Power Supply scalable for test bench
- Multifunctional analogue Interface 0-10V/0-20mA
- Remote Shutdown
- Sensing

□

## HSEUreg10001

Model	HSEUreg10001							
Power	1008W							
Nominal Input	115/230Vac select							
Input Range AC	90..115Vac/184..265Vac							
Input Range DC	250... 375Vdc							
Input Frequency	47... 63Hz							
Hold-Up Time	30ms							
Inrush Current Protection	NTC < 81A ( recommended MCB=C16A)							
Autostart	Soft start 100ms							
Programmable Output Voltage	0-15V	0-30V	0-50V	0-90V	0-130V	0-180V	0-240V	
Continuous Current (fix)	50A	33A	20A	11,2A	7,8A	5,6A	4,2A	
Ripple & Noise mVss	50mV	50mV	100mV	200mV	250mV	250mV	380mV	
Powerboost	55A	36,8A	22A	12,3A	8,6A	8,1A	4,6A	
Stability at Load Switch	±0,5%							
Transient Time	< 1ms							
Efficiency	90%							
Basic Load	Idling-proof							
Short Circuit Protection	Continuous							
Ambient Operating Temperature	-20°C... +70°C							
Cooling	Natural convection & controlled fan from Papst							
Temperature Monitoring	Yes							
Dimensions (WxHxD)	200x156x114,5mm							
IP-Range	IP20							
Safety Norms	CSA UL CE according to IEC60950-1							
Safety IEC	EN60950-1 EN50178 EN60204-1							
Safety Class 1(A)	VDE0100 VDE0805							
Input to Output Isolation	3000Vac							
Climatic Class, Humidity	3k3, 95% non condensing							
EMI	EN55022B							
EMS	EN61000-6-2,3							
MTBF IEC61709	400000h							
Programming Interface Voltage	0... 10Vdc, 0-20mA							
Programming Interface Current	No							
Monitoring Interface Voltage	No							
Monitoring Interface Current	No							
Power Good Relay	No							
Sense Operation	Yes							
Remote Shutdown	Yes							
Reference Voltage	No							
Ordering Options	Protective coating, 4-20mA interface							
Options	Isolating transformer for analogue interface, wall mount							





## HSEuereg10001 Lab Power Supply DIN-Rail

- 1000W C/V programmable, 5W/Cubic-Inch High Density Laboratory Power Supply scalable for test bench
- Multifunctional analogue Interface 0-5V/0-10V/0-20mA/4-20mA
- Real Time Monitoring

□

## HSEUreg10001

Model	HSEUreg10001								
Power	1008W								
Nominal Input	115/230Vac select								
Input Range AC	90..115Vac/184..265Vac								
Input Range DC	250... 375Vdc								
Input Frequency	47... 63Hz								
Hold-Up Time	30ms								
Inrush Current Protection	9,8Aeff / 13,8Apeak active limiter $\pm 6\%$								
Autostart	Soft start								
Programmable Output Voltage	0-18V	0-30V	0-50V	0-90V	0-130V	0-180V	0-240V	0-400V	
Programmable Output Current	0-50A	0-42A	0-25A	0-14A	0-9,5A	0-7A	0-5,3A	0-3,2A	
Ripple & Noise mVss	40mV	40mV	120mV	150mV	200mV	300mV	400mV	400mV	
Powerboost	See datasheet								
Stability at Load Switch	$\pm 0,2\%$								
Transient Time	< 1ms								
Efficiency	90%								
Basic Load	Idling-proof								
Short Circuit Protection	Continuous								
Ambient Operating Temperature	-20°C... +70°C								
Cooling	Natural convection & controlled fan from Papst								
Temperature Monitoring	Yes								
Dimensions (WxHxD)	200x156x114,5mm								
IP-Range	IP20								
Safety Norms	CSA UL CE according to IEC60950-1								
Safety IEC	EN60950-1 EN50178 EN60204-1								
Safety Class 1(A)	VDE0100 VDE0805								
Input to Output Isolation	3000Vac								
Climatic Class, Humidity	3k3, 95% non condensing								
EMI	EN55022B								
EMS	EN61000-6-2,3								
MTBF IEC61709	400000h								
Programming Interface Voltage	0... 5Vdc, 0... 10Vdc, 0-20mA, 4-20mA								
Programming Interface Current	0... 5Vdc, 0... 10Vdc, 0-20mA, 4-20mA								
Monitoring Interface Voltage	0... 5Vdc, 0... 10Vdc								
Monitoring Interface Current	0... 5Vdc, 0... 10Vdc								
Power Good Relay	Yes								
Sense Operation	yes								
Remote Shutdown	yes								
Reference Voltage	yes								
Ordering Options	Protective coating								
Options	Isolating transformer for analogue interface, wall mount, USB interface								



## USB2.0 UI.Drive-Interface HSEUreg-Series

- UI.Drive-Interface including UI.Drive-Software for MS Windows 2000/XP/7

□

## UI.Drive Interface USB2.0

Model	UI.Drive Interface USB2.0
Supply Voltage	+5V USB-Port
Current Consumption	115mV typ.
Isolation USB / DC-Output	3000Vac / 4300Vdc
Isolation USB / PE	500Vdc
Isolation DC-Output / PE	2000Vac / 2900Vdc
Resolution AD/DA Converter	12 Bit
Accuracy AD Converter	± 0,05% 15ppm/°C
Accuracy Monitoring Output	± 0,5% max.
Accuracy Control Input U/I	± 0,8% max.
Data Flow Control/Monitor	400ms interval
Remote On/Off	forced directly
Install Space	22,1mm windth (mounted)
UI.Drive Software	Microsoft Windows® 2000/XP/Win7
Quantity Power Supplies	10 pcs configurable
U / I / Monitoring / Remote	manual and automatic via ToolMonitor
Data Logger	available
Data Record	Logfile, customized setup
Script Engine	.DLL / .NET Framework
Visualisation	Customized window design
COM Server (DCOM/.NET)	UI.Drive -Software controllable via 3rd party software: e.g. LabView, MCD Test Manager CE, MS Excel, Open Office, others
Export Log File	HTML, PDF, E-Mail, Printer
Programming Language	MS Visual Studio, C#, C++, Visual Basic
Scope of Delivery	USB2.0 UI.Drive-Interface Hardware UI.Drive-Software Licence USB2.0 AB cable 5m / 16,4 ft. Interface Link Cable HSEUreg-Power Supply Installation Kit Installation Guide

**Category:**

**AC/DC Rack Mount Power Supply 19**



## PSM00803

- Rack Mount 1phase Fixed Output
- Active inrush current protection
- 8KV surge

□

## PSM00803

Model	PSM00803	
Power	80W	
Nominal Input Voltage	100... 240Vac	
Input Range AC	90... 265Vac	
Input Range DC	110... 300Vdc	
Input Frequency	47... 63Hz	
Hold-Up Time	100ms	
Inrush Current Protection	< 24Apeak / 17Arms active protection $\pm 6\%$	
Autostart	Soft start 100ms	
Output Voltage U1	+ 5V	+ 5V
Output Voltage U2	+ 12V	+ 15V
Output Voltage U3	- 12V	- 15V
Adjust Range U1	4,85... 5,15V	4,85... 5,15V
Ripple & Noise mVpp U1	20mV	20mV
Ripple & Noise mVpp U2	10mV	10mV
Ripple & Noise mVpp U3	10mV	10mV
Output Current I1	8A	8A
Output Current I2	2A	1,8A
Output Current I3	2A	1,8A
Power Boost $\leq 60^{\circ}\text{C}/60\text{s}$	96W	
Power Fail	yes	
Stability at Load Switch	$\pm 1\%$	
Transient Time	< 1ms	
Efficiency	83%	
Basic Load	Idling-proof	
Short Circuit Protected	Continuous	
Ambient Operating Temperature	$-20^{\circ}\text{C} \dots +70^{\circ}\text{C}$	
Cooling	Natural convection	
Temperature Monitoring	Yes	
Dimensions (WxHxD)	3U 8HP 160mm	
IP-Range	IP20	
Safety Norms	CSA UL CE according to IEC60950-1	
Safety IEC	EN60950-1 EN50178 EN60204-1	
Safety class 1(A)	VDE0100 VDE0805	
Input to Output Insulation	3000Vac	
Climatic Class, Humidity	3k3, 90% non condensing	
EMI	EN55022B EN61000-3-2A	
EMS	EN61000-6-2,3	
MTBF IEC61709	250000h	
Features	8KV/2.5kHz Input transient protection / power fail	
Ordering options	Protective coating	
Options	see Datasheet	



## PSM01502

- Rack Mount 1phase Fixed Output
- Active inrush current protection
- 8KV surge

□



## PSM01502

Model	PSM01502		
Power	150W		
Nominal Input Voltage	230Vac		
Input Range AC	184... 264Vac		
Input Range DC	250... 300Vdc		
Input Frequency	47... 63Hz		
Hold-Up Time	50ms		
Inrush Current Protection	< 15Apeak / 10,6Arms aktive protection ±6%		
Autostart	Soft start 20ms		
Output Voltage V1	+ 12V	+ 15V	
Output Voltage V2	- 12V	- 15V	
Output Voltage V3	+ 24V	+ 30V	U1 and U2 connectable
Adjust Range V1 / V2	±10%		
Ripple & Noise mVss V1	15mV	15mV	
Ripple & Noise mVss V2	15mV	15mV	
Ripple & Noise mVss V3	30mV U1 and U2 connectable		
Output Current I1	12A	10A	
Output Current I2	12A	10A	
Output Current I3	6,25A	5A	U1 and U2 connectable
Power Boost <=60°C/60s	EN60950-1		
Stability at Load Switch	±1%		
Transient Time	< 1ms		
Efficiency	89%		
Basic Load	Idling-proof		
Short Circuit Protected	Continuous		
Ambient Operating Temperature	-20°C... +70°C		
Cooling	Natural Convection		
Temperature Monitoring	Yes		
Dimensions (WxHxD)	3U 8HP 160mm		
IP-Range	IP20		
Safety Norms	CSA UL CE according to IEC60950-1		
Safety IEC	EN60950-1 EN50178 EN60204-1		
Safety class 1(A)	VDE0100 VDE0805		
Input to Output Insulation	3000Vac		
Climatic Class, Humidity	3k3, 90% non condensing		
EMI	EN55022B EN61000-3-2A		
EMS	EN61000-6-2,3		
MTBF IEC61709	450000h		
Remote Shutdown	Yes		
Features	8KV/2.5kHz input transient protection		
Ordering options	Protective coating		
Options	See datasheet		



## PSR01801 Redundant O-RING N+1

- Rack Mount 1phase Fixed Output
- Active inrush current protection
- Option Line Switch
- Redundant N+1
- Built-in O-ring diode
- PSR01801S with AC mains switch

□

## PSR01801 Redundant O-RING

Model	PSR01801				
Output power continuous	180W				
Nominal input voltage	100... 240Vac				
Input range AC	85... 265Vac				
Input range DC	250... 375Vdc				
Input frequency	47... 63Hz				
Hold-Up time	50ms				
Inrush current protection	< 24Apeak / 17Arms aktive protection ±6%				
Auto-start	Soft start 40ms				
Output voltage U1	5V	12V	24V	48V	60V
Adjust range U1	5... 5,5V	12... 15V	24... 30V	42... 53V	53... 70V
Ripple mVss U1	25mV	25mV	20mV	50mV	50mV
Output nominal current I1	25A	15A	7,5A	3,8A	3A
Power Boost <=60°C/60s	30A	18A	9A	4,6A	3,6A
Stability at Load Switch	±3%	±1%	±1%	±1%	±1%
Transient Time	< 1ms				
Efficiency	90%				
Basic Load	Idling-proof				
Short Circuit Protected	Continuous				
Ambient Operating Temperature	-20°C... +60°C				
Cooling	Natural convection				
Temperature Monitoring	Yes				
Dimensions (WxHxD)	3U 10HP 220mm				
IP-Range	IP20				
Safety Norms	CSA UL CE according to IEC60950-1				
Safety IEC	EN60950-1 EN50178 EN60204-1				
Safety class 1(A)	VDE0100 VDE0805				
Input to Output Insulation	3000Vac				
Climatic Class, Humidity	3k3, 90% non condensing				
EMI	EN55022B EN61000-3-2A				
EMS	EN61000-6-2,3				
MTBF IEC61709	300000h				
Power Good Relay	Yes				
Features	redundant decoupling O-ring diodes				
Ordering options	Protective coating / line switcher				
Options	See datasheet				



## PSM02202

- Rack Mount 1phase Fixed Output
- Active inrush current protection
- 8KV surge

□

## PSM02202

Model	PSM02202		
Power	220W		
Nominal Input Voltage	230Vac		
Input Range AC	184... 264Vac		
Input Range DC	250... 300Vdc		
Input Frequency	47... 63Hz		
Hold-Up Time	50ms		
Inrush Current Protection	< 24A <sub>peak</sub> / 17A <sub>rms</sub> active protection ±6%		
Autostart	Soft start 20ms		
Output Voltage U1	+ 12V	+ 15V	
Output Voltage U2	- 12V	- 15V	
Output Voltage U3	+ 24V	+ 30V	U1 and U2 connectable
Ripple & Noise mV <sub>ss</sub> U1	15mV	15mV	
Ripple & Noise mV <sub>ss</sub> U2	15mV	15mV	
Ripple & Noise mV <sub>ss</sub> U3	30mV U1 and U2 connectable		
Output Current I1	12A	10A	
Output Current I2	12A	10A	
Output Current I3	9,17A	7,33A	U1 and U2 connectable
Power Boost <=60°C/60s	264W		
Stability at Load Switch	±1%		
Transient Time	< 1ms		
Efficiency	91%		
Basic Load	Idling-proof		
Short Circuit Protected	Continuous		
Ambient Operating Temperature	-20°C... +70°C		
Cooling	Natural Convection		
Temperature Monitoring	Yes		
Dimensions (WxHxD)	3U 8HP 160mm		
IP-Range	IP20		
Safety Norms	CSA UL CE according to IEC60950-1		
Safety IEC	EN60950-1 EN50178 EN60204-1		
Safety class 1(A)	VDE0100 VDE0805		
Input to Output Insulation	3000Vac		
Climatic Class, Humidity	3k3, 90% non condensing		
EMI	EN55022B EN61000-3-2A		
EMS	EN61000-6-2,3		
MTBF IEC61709	450000h		
Remote Shutdown	Yes		
Features	8KV/2.5kHz input transient protection		
Ordering options	Protective coating		
Options	See datasheet		

**Category:**

**AC/DC Chassis Mount Power Supply**



## APW00803S

- 1phase Fixed Output baseplate cooled (not required for full operation)
- Active inrush current protection
- 8KV surge

□

## APW00803S

Model	APW00803S	
Power	80W	
Nominal Input	100... 240Vac	
AC Input Range	90... 265Vac	
DC Input Range	110... 300Vdc	
Input Frequency	47... 63Hz	
Hold-Up Time	100ms	
Inrush Current Protection	< 24Apeak / 17Arms active protection $\pm 6\%$	
Auto-start	Soft start 100ms	
Output voltage U1	+ 5V	+ 5V
Output voltage U2	+ 12V	+ 15V
Output voltage U3	- 12V	- 15V
Adjust range U1	4,85... 5,15V	4,85... 5,15V
Ripple mVss U1	20mV	20mV
Ripple mVss U2	10mV	10mV
Ripple mVss U3	10mV	10mV
Output current I1	8A	8A
Output current I2	2A	1,8A
Output current I3	2A	1,8A
Power boost <60°C	96W	
Stability at Load switch	$\pm 1\%$	
Transient time	< 1ms	
Efficiency	83%	
Base load	idling-proof	
Short Circuit Protection	Continuous	
Ambient Operation Temperature	-20°C... +70°C	
Cooling	Natural convection & baseplate cooled power	
Temperature Monitoring	yes	
Dimensions (WxHxD)	126x51x177mm	
Model	IP20	
Safety Norms	CSA UL CE according to IEC60950-1	
Safety IEC	EN60950-1 EN50178 EN60204-1	
Safety class 1(A)	VDE0100 VDE0805	
Input to Output Isolation	3000Vac	
Climatic class, Humidity	3k3, 90% non condensing	
EMI	EN55022B EN61000-3-2A	
EMS	EN61000-6-2,3	
MTBF IEC61709	250000h	
Power Fail	Yes (+5V high)	
Features	8KV/2.5kHz input transient protection	
Ordering options	Protective coating	
Options	see datasheet	





## APW01303

- 1-Phasen Power Supply Mains Switch, Inlet Connector, Mains Fuse, Chassis Mount
- Frequency synchronisation with the load frequency

□

## APW01303

Model	APW01303		
Power	130 watt		
Output	Triple-output (galvanic insulated)		
Outputs	U1	U2	U3
Output voltage	+5V	+12V	-12V
Output current	10A	3A	3A
Input	90- 264Vac 47-63 Hz		
Mains connector	Inlet connector female incl. Filter and Mains fuse		
Connection	Phoenix Combicon spring type terminal pitch 3,8mm		
Efficiency typ.	> 82%		
Ambient temperature	-20°C ... +70°C		
Cooling	Natural convection		
Dimensions WxHxD	133 x 200 x 63mm		
Special Features	Frequency Synchronized		
	Continuous short circuit protected		
	Low heat emission		
	High reliable		
	Excellent behavior on load switch		
	Idling proof		



## APW01502

- 1phase Fixed Output baseplate cooled (not required for full operation)
- Active inrush current protection
- 8KV surge
- 2+1 dc output

□

## APW01502

Model	APW01502		
Power	150W		
Nominal Input AC	230Vac		
Input range AC	184... 264Vac		
Input range DC	250... 300Vdc		
Input frequency	47... 63Hz		
Hold-Up Time	50ms		
Inrush Current Protection	< 24A <sub>peak</sub> / 17Arms electronic protection ±6%		
Auto-start	Soft start 20ms		
Output voltage V1	+ 12V	+ 15V	
Output voltage V2	- 12V	- 15V	
Output voltage V3	+ 24V	+ 30V	U1 and U2 connectable
Adjust range V1 & V2	±10%		
Ripple mVpp V1	15mV	15mV	
Ripple mVpp V2	15mV	15mV	
Ripple mVpp V3	20mV		
Output current I1	12A	10A	
Output current I2	12A	10A	
Output current I3	6,25A	5A	U1 and U2 connectable
Power boost 60s	180W		
Stability Load switch	±1%		
Transient time	< 1ms		
Efficiency	89%		
Basic load	Idling-proof		
Short Circuit Protection	Continuous		
Ambient Operation Temperature	-20°C... +70°C		
Cooling	Natural convection & baseplate cooled power		
Temperature monitoring	yes		
Dimensions (WxHxD)	126x51x177mm		
IP Rated	IP20		
Safety norm	CSA UL CE according to IEC60950-1		
Safety IEC	EN60950-1 EN50178 EN60204-1		
Safety class 1(A)	VDE0100 VDE0805		
Input to Output Isolation	3000Vac		
Climatic Class, Humidity	3k3, 90% non condensing		
EMI	EN55022B EN61000-3-2A		
EMS	EN61000-6-2,3		
MTBF IEC61709	450000h		
Remote Shutdown	Yes		
Features	8KV/2.5kHz input transient protection		
Ordering options	Protective coating		
Options	See datasheet		



## APW01694

- 1-Phasen AC/DC Power Supply
- Mains Switch
- Inlet Connector with Mains Fuse
- Chassis Mount
- Synchronizable with connected DC-load

□

## APW01694

Model	APW01694			
Power	170 watt			
Output	Quadruple-output (4 Outputs)			
Outputs	U1	U2	U3	U4
Output voltage	+24V	+12V	-12V	+5V
Output current	3A	3A	3A	5A
Input	90 up to 265VAC 47-63 Hz			
Mains connector	Inlet connector female incl. Filter and Mains fuse			
Connection	Spring terminal type plug-in			
Efficiency	> 82%			
Ambient Operating Temperature	-20°C up to +60°C			
Cooling	Natural convection			
Dimensions WxHxD	133 x 200 x 63mm			
Special Features	Frequency synchronized			
	Continuous short circuit protected			
	Low heat emission			
	High reliable			
	Excellent behavior at load switch			
	Idling proof			



## APW02202

- 1phase Fixed Output baseplate cooled (not required for full operation)
- Active inrush current protection
- 8KV strange
- 2+1 dc output

□

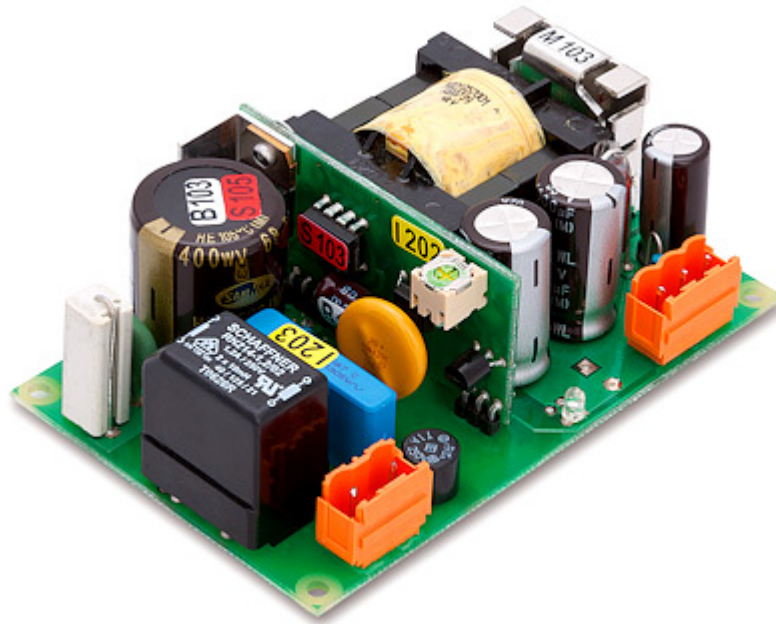
## APW02202

Model	APW02202		
Power	220W		
Nominal Input AC	230Vac		
Input range AC	184... 264Vac		
Input range DC	250... 300Vdc		
Input frequency	47... 63Hz		
Hold-Up Time	50ms		
Inrush Current Protection	< 24A <sub>peak</sub> / 17A <sub>rms</sub> electronic protection $\pm 6\%$		
Auto-start	Soft start 20ms		
Output voltage V1	+ 12V	+ 15V	
Output voltage V2	- 12V	- 15V	
Output voltage V3	+ 24V	+ 30V	U1 and U2 connectable
Adjust range V1 & V2	$\pm 10\%$		
Ripple mVpp V1	15mV	15mV	
Ripple mVpp V2	15mV	15mV	
Ripple mVpp V3	20mV		
Output current I1	12A	10A	
Output current I2	12A	10A	
Output current I3	9,1A	7,3A	U1 and U2 connectable
Power boost 60s	264W		
Stability Load switch	$\pm 1\%$		
Transient time	< 1ms		
Efficiency	89%		
Basic load	Idling-proof		
Short Circuit Protection	Continuous		
Ambient Operation Temperature	-20°C... +70°C		
Cooling	Natural convection & baseplate cooled power		
Temperature monitoring	yes		
Dimensions (WxHxD)	126x51x177mm		
IP Rated	IP20		
Safety norm	CSA UL CE according to IEC60950-1		
Safety IEC	EN60950-1 EN50178 EN60204-1		
Safety class 1(A)	VDE0100 VDE0805		
Input to Output Isolation	3000Vac		
Climatic Class, Humidity	3k3, 90% non condensing		
EMI	EN55022B EN61000-3-2A		
EMS	EN61000-6-2,3		
MTBF IEC61709	450000h		
Remote Shutdown	Yes		
Features	8KV/2.5kHz input transient protection		
Ordering options	Protective coating		
Options	See datasheet		



**Category:**

**AC/DC Open Frame Power Supply**



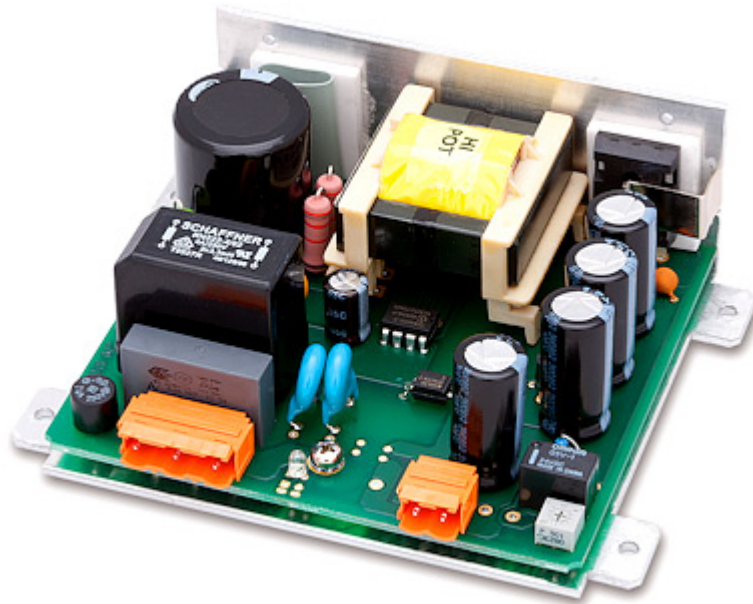
## OSW00301W

- Open Frame 1phase Fixed Output high precision switch mode power supply
- low ripple & noise for sensitive loads like sensors, professional audio, measuring & control equipment

□

## OSW00301W

Model	OSW00301W							
Power	30W							
Nominal AC Input	100... 240Vac							
Input Range AC	90... 265Vac							
Input Range DC	110... 375Vdc							
Input Frequency	47... 63Hz							
Hold-Up Time	40ms							
Inrush Current Protection	NTC <17A							
Autostart	Soft start 30ms							
Output Voltage	5V	9V	12V	15V	24V	48V	60V	
Adjust Range Uout	4,9... 5,5V	8,6... 9,9V	11,4... 23,2V	14,2... 16,5V	23,5... 28,5V	45,6... 52,8V	57... 66V	
Ripple & Noise mVss	15mV	15mV	10mV	10mV	50mV	100mV	100mV	
Nominal Output Current	5A	3,3A	2,5A	2A	1,3A	600mA	500mA	
Power Boost <=60°C/60s	6A	4A	3A	2,4A	1,56A	720mA	600mA	
Stability at Load Switch	±0,5%							
Transient Time	< 1ms							
Efficiency	86%							
Basic load	Idling-proof							
Short Circuit Protection	Continuous							
Ambient Operation Temperature	-20°C... +70°C							
Cooling	Natural convection							
Dimensions (WxHxD)	96,5x62x29mm							
IP-Range	Open frame							
Safety IEC	EN60950-1 EN50178 EN60204-1							
Safety Class 1(A)	VDE0100 VDE0805							
Input to Output Isolation	3000Vac							
Climatic Class, Humidity	3k3, 90% non condensing							
EMI	EN55022B EN61000-3-2A							
EMS	EN61000-6-2,3							
MTBF IEC61709	500000h							
Sense operation	5V ±200mV standard							
Options	See datasheet							



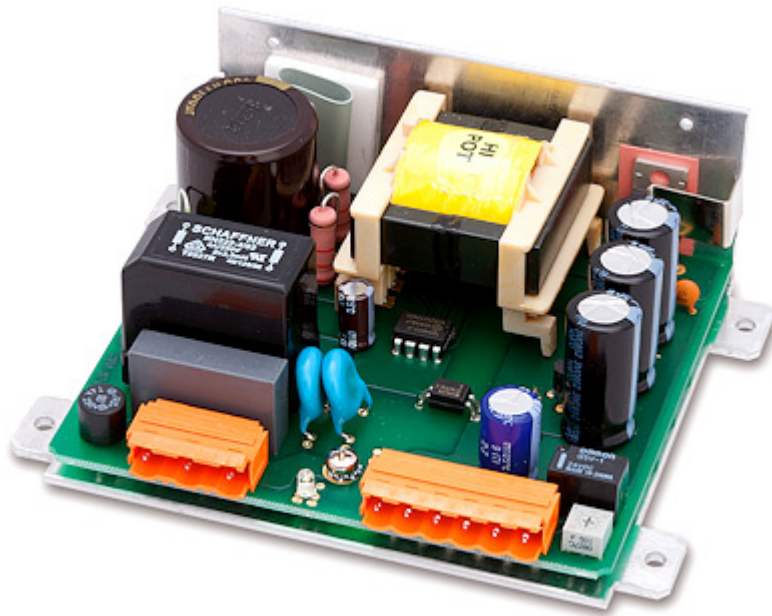
## OSW00751W

- 1phase Fixed Output baseplate cooled (not required for full operation)
- low ripple & noise for sensitive loads like professional audio, sensors, measuring & control equipment

□

## OSW00751W

Model	OSW00751W				
Power	75W				
Nominal AC Input	100... 240Vac				
Input Range AC	90... 265Vac				
Input Range DC	110... 375Vdc				
Input Frequency	47... 63Hz				
Hold-Up Time	40ms				
Inrush Current Protection	NTC <32A				
Autostart	Soft start 50ms				
Output Voltage	5V	9V	12V	15V	24V
Adjust Range Vout	4,9... 5,5V	8,6... 9,9V	11,4... 13,2V	14,3... 16,5V	22,5... 28,5V
Ripple & Noise mVpp	15mV	15mV	20mV	20mV	50mV
Nominal Output Current	7,5A	7,6A	6A	5A	3,2A
Power Boost <=60°C/60s	9A	9,1A	7,2A	6A	3,8A
Stability at Load Switch	±0,1%	±0,5%	±0,3%	±0,2%	±0,1%
Transient Time	< 1ms				
Efficiency	90%				
Basic load	Idling-proof				
Short Circuit Protection	Continuous				
Ambient Operation Temperature	-20°C... +70°C				
Cooling	Natural convection				
Temperature Monitoring	Upon request				
Dimensions (WxHxD)	100x91x45mm				
IP-Range	Open frame				
Safety Norms	CSA UL CE according to IEC60950-1				
Safety IEC	EN60950-1 EN50178 EN60204-1				
Safety Class 1(A)	VDE0100 VDE0805				
Input to Output Isolation	3000Vac				
Climatic Class, Humidity	3k3, 90% non condensing				
EMI	EN55022B EN61000-3-2A				
EMS	EN61000-6-2,3				
MTBF IEC61709	500000h				
Power Good Relay	Upon request				
Sense operation	Upon request for 5V ±200mV				
Features	Baseplate cooled power				
Ordering options	Power good relay, sensing for 5Vdc model				
Options	See datasheet				



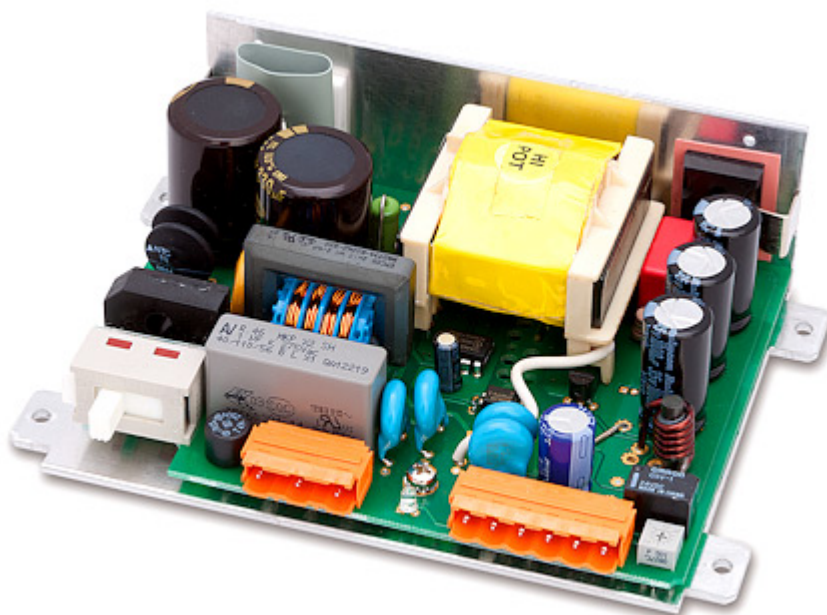
## OSW00901W

- 1phase Fixed Output baseplate cooled (not required for full operation)
- low ripple & noise for sensitive loads like professional audio, sensors, measuring & control equipment

□

## OSW00901W

Model	OSW00901W					
Power	90W					
Nominal AC Input	100... 240Vac					
Input Range AC	90... 265Vac					
Input Range DC	110... 375Vdc					
Input Frequency	47... 63Hz					
Hold-Up Time	40ms					
Inrush Current Protection	NTC <32A					
Autostart	Soft start 50ms					
Output Voltage	24V	36V	48V	60V	72V	140V
Adjust Range Vout	22,5... 28,5V	43,2... 39,6V	45,6... 52,8V	57... 66V	68... 86V	133... 155V
Ripple & Noise mVpp	50mV	60mV	60mV	100mV	120mV	120mV
Nominal Output Current	3,8A	2,5A	1,9A	1,5A	1,3A	640mA
Power Boost <=60°C/60s	4,6A	3A	2,7A	1,8A	1,6A	770mA
Stability at Load Switch	±0,1%	±0,1%	±0,1%	±0,1%	±0,3%	±0,5%
Transient Time	< 1ms					
Efficiency	90%					
Basic load	Idling-proof					
Short Circuit Protection	Continuous					
Ambient Operation Temperature	-20°C... +70°C					
Cooling	Natural convection					
Temperature Monitoring	Upon request					
Dimensions (WxHxD)	100x91x45mm					
IP-Range	Open frame					
Safety Norms	CSA UL CE according to IEC60950-1					
Safety IEC	EN60950-1 EN50178 EN60204-1					
Safety Class 1(A)	VDE0100 VDE0805					
Input to Output Isolation	3000Vac					
Climatic Class, Humidity	3k3, 95% non condensing					
EMI	EN55022B EN61000-3-2A					
EMS	EN61000-6-2,3					
MTBF IEC61709	500000h					
Power Good Relay	Upon request (PG)					
Features	Baseplate cooled power					
Ordering options	Power good relay, temperature control					
Options	See datasheet					



## OSE01201

- 1phase Fixed Output baseplate cooled (not required for full operation)
- low ripple & noise for sensitive loads like professional audio, sensors, measuring & control equipment

□



## OSE01201

Model	OSE01201W							
Power	120W							
Nominal AC Input	115/230Vac select							
Input Range AC	90..115Vac/184..265Vac							
Input Range DC	250... 375Vdc							
Input Frequency	47... 63Hz							
Hold-Up Time	30ms							
Inrush Current Protection	NTC <16A							
Autostart	Soft start 50ms							
Output Voltage	12V	24V	36V	48V	60V	72V	110V	
Adjust Range Vout	11,4..13,2V	22,5... 28,5V	34,2... 39,6V	42,8... 52,8V	57... 66V	68... 86V	133... 155V	
Ripple & Noise mVpp	50mV	65mV	65mV	100mV	120mV	120mV	200mV	
Nominal Output Current	8A	5A	3,3A	2,5A	2A	1,7A	1,1A	
Power Boost <=60°C/60s	9,6A	6A	4A	3A	2,4A	2A	1,3A	
Stability at Load Switch	±0,5%							
Transient Time	< 1ms							
Efficiency	91%							
Basic load	Idling-proof							
Short Circuit Protection	Continuous							
Ambient Operation Temperature	-20°C... +70°C							
Cooling	Natural convection							
Temperature Monitoring	on Wunsch							
Dimensions (WxHxD)	124x96x50mm							
IP-Range	Open frame							
Safety Norms	CSA UL CE according to IEC60950-1							
Safety IEC	EN60950-1 EN50178							
Safety Class 1(A)	VDE0100 VDE0805							
Input to Output Isolation	4000Vac							
Climatic Class, Humidity	3k3, 90% non condensing							
EMI	EN55022B EN61000-3-2A							
EMS	EN61000-6-2,3							
MTBF IEC61709	600000h							
Power Good Relay	Upon request							
Features	Baseplate cooled power							
Ordering options	Power Good Relay							
Options	See datasheet							

**Category:**

**DC-UPS / Battery Charger**



## DCUPS2U

- Unbreakable DC Power Supply (UPS), Subrack, 2U 84HP D=280mm
- Integrated Battery Pack
- 2 internal, independent Power Supplies for Continuous Operation and Battery Charging
- Zero voltage drop at powerswitch between mains supply and battery supply
- AC-Fail, DC-Fail Charger und Main Power Supply, O-Ring

□

## DCUPS2U

Model	DCUPS2U		
Power	114W		
Master-slave operation	Slave-Units for modular capacity expansion available		
Master Vout	12V	24V	48V
Continuous Current	8A	4A	2A
Backup Capacity	16Ah	8Ah	4Ah
'19"-Subframe'	2U 84HP 280mm		
Mains Input	184... 265Vac (230Vac) 47-63Hz		
Mains Input Connector	Inlet connector male with Lock		
Monitoring	Relay, piezo-sound interval		
AC Power Fail	yes		
Battery Low Voltage	Signaling for relay		
Battery O.K.	LED & signal		
Battery Charger	Integrated		
Monitoring Battery Charger	Relay, Sub-D		
Power Supply	Active during mains operation for load		
Monitoring Power Supply	Relay, Sub-D		
Short Circuit Protection DC for Battery	Thermic fuse, manual resettable		
Cooling	Natural convection		
Efficiency	>90% continuous operation		
Operating Temperature	+10°C... +40°C, IEC60068-2-1		
Connection Output	Phoenix Power Combicon, screw-lock		
Battery Type	Built-in, type Panasonic LCR124R5P for cycle operation		
GND-Type DC	Plus connected GND		
PE Connection	Additional for front screw terminals		



## GL1800 / RM1800

- Charger Electronic Rectifier
- O-ring N+1 from 1,8KW up to 54KW (1,8KW-steps)
- Compatible with Eltek RM1800 WBrug, Convertec RM1800
- Compatible with Eltek Contoller SVS-SM7, Flatpack MCU, Flatpack 2
- Digital Interface Shunt for Eltek Flatpack 2 Controller available as an option

□

## GL1800 / RM1800

Model	GL1800 / RM1800				
Power	1800 watt				
Rack Mount	6U 21HP				
Input AC	230Vac				
Input Frequency	47-63Hz / 16 2/3Hz				
Output	Output voltage selectable				
Output voltage selectable via switch	12V	24V	36V	48V	60V
Output current	30A	30A	30A	30A	25A
Ripple Ripple mV (@20MHz/50R)	10mV	10mV	10mV	10mV	10mV
Inrush current protection	Active protection				
Mains short circuit	Connector inlet male				
Control- & Monitoring Signal	Connector Amphenol Sub-D 15pin				
Output Voltage	Connector Phoenix HDFLV 10				
Efficiency typ.	> 90%				
Ambient Operating Temperature	-10°C ... +50°C				
Cooling	Speed controlled fan				
Special Features	Monitoring (relay)				
	Low inrush current				
	Battery voltage adjustable				
	Railway use				

**Category:**

**DC/DC Converter**



## DCV00081.10\_200

- High precision DC/DC-Converter galvanic insulated
- Built-in EMI filter
- Programmable Single Output, 10 to 200V
- PCB Mount
- Applicable for sensitive loads and piezo drives

□



## DCV00081.10\_200

Model	DCV00081.10_200
Power	8 watt
DC Input	10Vdc ... 14Vdc
Connection	PCB mount
Input to Output Isolation	galvanic insulated
Programmable interface	0 up to 10Vdc for programmable output
Efficiency typ.	> 65%
Ambient temperature	-20°C ... +75°C
Cooling	Natural convection
Programmable DC Output	10Vdc ... 200Vdc
Output Current	125mA power boost
Dimensions WxHxD	60 x 17 x 60mm
Special Features	Synchrone master/slave operation
	Continuous short circuit protected
	Low heat emission
	High reliability
	Excellent behavior at load switch
	Low inrush current



## DCV00081.160

- High precision DC/DC-Converter galvanic insulated
- Built-in EMI filter
- Single Output 160Vdc (other Vout upon request)
- PCB Mount
- Applicable for sensitive loads and piezo drives

□

## DCV00081.160

Model	DCV00081.160
Power	8 watt
Input	10Vdc ... 14Vdc
Connection	PCB mount
Input to Output Isolation	Galvanic insulated
Output	Fixed
Efficiency typ.	> 65%
Ambient temperature	-20°C up to +75°C
Cooling	Natural convection
Output voltage	160Vdc
Output current	50mA power boost
Dimensions WxHxD	60 x 17 x 60mm
Special Features	Synchrone master/slave operation
	Continuous short circuit protected
	Low heat emission
	High reliable
	Excellent behavior at load switch
	Low inrush current

**Category:**

**ESB AC Inrush Current Limiter**



## ESB101

- Inrush Current Limiter (ESB) DIN-Rail TS35mm

□

## ESB101.LED.230Vac

Model	ESB101.LED.230Vac
Limiting Peak current	48A for Ton=300ms
Limiting RMS-value	33,9A for Ton=300ms
Limiting Cycle Interval	900ms (3x/minute)
Low Voltage Detection	Toff=550ms
Input Voltage	184... 265Vac 16 1/3... 440Hz 1PH
Nominal voltage	220... 240Vac
AC Continuous Current	16A input/output
Load capacity	6000uF
Connectors	Spring-type-terminal 0,5... 6mm <sup>2</sup>
Ambient Operating Temperature	-40°C ... +70°C no derating
Cooling	Natural convection
Dimensions (WxHxD)	36,5 x 62 x 110mm
Special Features	Temperature protected (fuse) Fire protected Accuracy ±5%, independent from ambient temperature Ballast and capacitive loads Bypass circuit 4000m / 13123 ft. Above sea level

## ESB101.LED.115Vac

Model	ESB101.LED.115Vac
Limiting Peak current	43A for Ton=500ms
Limiting RMS-value	30,4A for Ton=500ms
Limiting Cycle Interval	900ms (3x/minute)
Low Voltage Detection	Toff=550ms
Input Voltage	90... 130Vac 16 1/3... 440Hz 1PH
Nominal voltage	110... 120Vac
AC Continuous Current	16A
Load capacity	10000uF
Connectors	Spring-type-terminal 0,5... 6mm <sup>2</sup>
Ambient Operating Temperature	-40°C... +0°C no derating
Cooling	Natural convection
Dimensions (WxHxD)	36,5 x 62 x 110mm
Special Features	Temperature protected (fuse) Fire protected Accuracy ±5%, independent from ambient temperature Ballast and capacitive loads Bypass circuit 4000m / 13123 ft. Above sea level

## ESB101.16

Model	ESB101.16
Limiting Peak current	16A for Ton=300ms
Limiting RMS-value	11,3A for Ton=300ms
Limiting Cycle Interval	900ms (3x/minute)
Low Voltage Detection	Toff=500ms
Input Voltage	184... 265Vac 16 1/3... 440Hz 1PH
Nominal voltage	220... 240Vac
AC Continuous Current	16A input/output
Load capacity	1500uF
Connectors	Spring-type-terminal 0,5... 6mm <sup>2</sup>
Ambient Operating Temperature	-40°C ... +70°C no derating
Cooling	Natural convection
Dimensions (WxHxD)	36,5 x 62 x 110mm
Special Features	Temperature protected (fuse) Fire protected Accuracy ±5%, independent from ambient temperature Ballast and capacitive loads Bypass circuit 4000m / 13123 ft. Above sea level

## ESB101.23

Model	ESB101.23
Limiting Peak current	23A for Ton=300ms
Limiting RMS-value	16,3A for Ton=300ms
Limiting Cycle Interval	900ms (3x/minute)
Low Voltage Detection	Toff=500ms
Input Voltage	184... 265Vac 16 1/3... 440Hz 1PH
Nominal voltage	220... 240Vac
AC Continuous Current	16A input/output
Load capacity	2000uF
Connectors	Spring-type-terminal 0,5... 6mm <sup>2</sup>
Ambient Operating Temperature	-40°C... +70°C no derating
Cooling	Natural convection
Dimensions (WxHxD)	36,5 x 62 x 110mm
Special Features	Temperature protected (fuse) Fire protected Accuracy ±5%, independent from ambient temperature Ballast and capacitive loads Bypass circuit 4000m / 13123 ft. Above sea level

## ESB101.23S

Model	ESB101.23S
Limiting Peak current	23A for Ton=500ms
Limiting RMS-value	16,3A for Ton=500ms
Limiting Cycle Interval	1400ms (3x/minute)
Low Voltage Detection	Toff=800ms
Input Voltage	184... 265Vac 16 1/3... 440Hz 1PH
Nominal voltage	220... 240Vac
AC Continuous Current	16A
Load capacity	2000uF
Connectors	Spring-type-terminal 0,5... 6mm <sup>2</sup>
Ambient Operating Temperature	-40°C... +0°C no derating
Cooling	Natural convection
Dimensions (WxHxD)	36,5 x 62 x 110mm
Special Features	Temperature protected (fuse) Fire protected Accuracy ±5%, independent from ambient temperature Ballast and capacitive loads Bypass circuit 4000m / 13123 ft. Above sea level

## ESB101.23S.115Vac

Model	ESB101.23S.115Vac
Limiting Peak current	23A for Ton=500ms
Limiting RMS-value	16,3A for Ton=500ms
Limiting Cycle Interval	1400ms (3x/minute)
Low Voltage Detection	Toff=900ms
Input Voltage	90... 130Vac 16 1/3... 440Hz 1PH
Nominal voltage	110... 120Vac
AC Continuous Current	16A
Load capacity	4000uF
Connectors	Spring-type-terminal 0,5... 6mm <sup>2</sup>
Ambient Operating Temperature	-40°C... +0°C no derating
Cooling	Natural convection
Dimensions (WxHxD)	36,5 x 62 x 110mm
Special Features	Temperature protected (fuse) Fire protected Accuracy ±5%, independent from ambient temperature Ballast and capacitive loads Bypass circuit 4000m / 13123 ft. Above sea level



## ESB101.33

Model	ESB101.33
Limiting Peak current	33A for Ton=300ms
Limiting RMS-value	23,3A for Ton=300ms
Limiting Cycle Interval	900ms (3x/minute)
Low Voltage Detection	Toff=800ms
Input Voltage	184... 265Vac 16 1/3... 440Hz 1PH
Nominal voltage	220... 240Vac
AC Continuous Current	16A
Load capacity	4000uF
Connectors	Spring-type-terminal 0,5... 6mm <sup>2</sup>
Ambient Operating Temperature	-40°C... +70°C no derating
Cooling	Natural convection
Dimensions (WxHxD)	36,5 x 62 x 110mm
Special Features	Temperature protected (fuse)
	Fire protected
	Accuracy ±5%, independent from ambient temperature
	Ballast and capacitive loads
	Bypass circuit
	4000m / 13123 ft. Above sea level



## ESB201.LED

- Inrush Current Limiter (ESB) for LED Power Supply and Electronic Ballast

□

## ESB201.LED.230Vac

Model	ESB201.LED.230Vac
Limiting Peak current	48A for Ton=300ms
Limiting RMS-value	33,9A for Ton=300ms
Limiting Cycle Interval	900ms (3x/minute)
Low Voltage Detection	Toff=550ms
Input Voltage	184... 265Vac 16 1/3... 440Hz 1PH
Nominal voltage	220... 240Vac
AC Continuous Current	16A input/output
Load capacity	6000uF
Connectors	Spring-type-terminal 0,5... 6mm <sup>2</sup>
Ambient Operating Temperature	-20... +C45°C no derating
Cooling	Natural convection
Dimensions (HxDxW)	35,4 x 23,5 x 260mm
Special Features	Temperature protected (fuse)
	Safety covered terminals against electrical shock
	Fire protected
	Accuracy ±6%, independent from ambient temperature
	Ballast and capacitive loads
	Bypass circuit
	4000m / 13123 ft. above sea level

## ESB201.LED.115Vac

Model	ESB201.LED.115Vac
Limiting Peak current	43A for Ton=500ms
Limiting RMS-value	30,4A for Ton=500ms
Limiting Cycle Interval	900ms (3x/minute)
Low Voltage Detection	Toff=550ms
Input Voltage	90... 130Vac 16 1/3... 440Hz 1PH
Nominal voltage	110... 120Vac
AC Continuous Current	16A
Load capacity	10000uF
Connectors	Spring-type-terminal 0,5... 6mm <sup>2</sup>
Ambient Operating Temperature	-20°C... +45°C no derating
Cooling	Natural convection
Dimensions (WxHxD)	35,4 x 23,5 x 260mm
Special Features	Temperature protected (fuse)
	Safety covered terminals against electrical shock
	Fire protected
	Accuracy ±6%, independent from ambient temperature
	Ballast and capacitive loads
	Bypass circuit
	4000m / 13123 ft. above sea level



## ESB00351

- Inrush Current Limiter (ESB) DIN-Rail TS35mm

□

## ESB00351

Model	ESB00351
Limiting Peak current	35A for Ton=150ms
Limiting RMS-value	24,8A for Ton=150ms
Limiting Cycle Interval	60s
Low Voltage Detection	Toff=100ms
Input Voltage	184... 265Vac 47... 63Hz
Nominal voltage	220... 240Vac
AC Continuous Current	30A
Load capacity	10000uF
Connectors	Spring-type-terminal 0,5... 10mm <sup>2</sup>
Ambient Operating Temperature	-20°C... +70°C no derating
Cooling	Natural convection
Dimensions (WxHxD)	195 x 130 x 122mm
Special Features	Accuracy ±5%, independent from ambient temperature
	Capable of capacitive loads (no restrictions)
	Active & precise measuring circuit
	Bypass circuit
	Built in switch mode power supply



## ESB00163 (3PH)

- Inrush Current Limiter (ESB) DIN-Rail TS35mm
- Phase Monitor

□

## ESB00163A.T (3PH)

Model	ESB00163A.T (3PH)
Limiting Peak current	22,6A Ton adjustable 70 to 240ms
Limiting RMS-value	16A Ton adjustable 70 to 240ms
Limiting Cycle Interval	60s
Low Voltage Detection	Toff adjustable 60 to 170ms
Input Voltage	170... 575Vac 47... 63Hz 3PH
Nominal voltage	200/400/500Vac selectable
AC Continuous Current	3x 16A
Load capacity	1500uF
Connectors	Spring-type-terminal 0,5... 16mm <sup>2</sup> , 22... 8AWG
Ambient Operating Temperature	-20°C... +45°C no derating
Cooling	Natural convection
Dimensions (WxHxD)	95 x 155 x 122mm
Special Features	Integrated & complete phase monitor Asymmetry, phase lost, phase sequence Accuracy ±6%, independent from ambient temperature Extending monitoring Each phase limited independently Ballast and capacitive loads Active & precise measuring circuit Bypass circuit each phase Built in switch mode power supply

## ESB00163B.T (3PH)

Model	ESB00163B.T (3PH)
Limiting Peak current	22,6A Ton adjustable 70 to 240ms
Limiting RMS-value	16A Ton adjustable 70 to 240ms
Limiting Cycle Interval	60s
Low Voltage Detection	Toff adjustable 60 to 170ms
Input Voltage	170... 460Vac 47... 63Hz 3PH
Nominal voltage	200/400Vac selectable
AC Continuous Current	3x 16A
Load capacity	1500uF
Connectors	Spring-type-terminal 0,5... 16mm <sup>2</sup> , 22... 8AWG
Ambient Operating Temperature	-20°C... +60°C no derating
Cooling	Natural convection
Dimensions (WxHxD)	95 x 155 x 122mm
Special Features	Integrated & complete phase monitor Asymmetry, phase lost, phase sequence Accuracy ±6%, independent from ambient temperature Extending monitoring Each phase limited independently Ballast and capacitive loads Active & precise measuring circuit Bypass circuit each phase Built in switch mode power supply





## ESB00323 (3PH)

- Inrush Current Limiter (ESB) DIN-Rail TS35mm
- Phase Monitor

□

## ESB00323A.T (3PH)

Model	ESB00323A.T (3PH)
Limiting Peak current	68,6A Ton adjustable 70 to 240ms
Limiting RMS-value	48A Ton adjustable 70 to 240ms
Limiting Cycle Interval	60s
Low Voltage Detection	Toff adjustable 60 to 170ms
Input Voltage	170... 575Vac 47... 63Hz 3PH
Nominal voltage	200/400/500Vac selectable
AC Continuous Current	3x 32A
Load capacity	2000uF
Connectors	Spring-type-terminal 0,5... 16mm <sup>2</sup> , 22... 8AWG
Ambient Operating Temperature	-20°C... +45°C no derating
Cooling	Natural convection
Dimensions (WxHxD)	95 x 155 x 122mm
Special Features	Integrated & complete phase monitor Asymmetry, phase lost, phase sequence Accuracy ±6%, independent from ambient temperature Extending monitoring Each phase limited independently Ballast and capacitive loads Active & precise measuring circuit Bypass circuit each phase Built in switch mode power supply

## ESB00323B.T (3PH)

Model	ESB00323B.T (3PH)
Limiting Peak current	68,6A Ton adjustable 70 to 240ms
Limiting RMS-value	48A Ton adjustable 70 to 240ms
Limiting Cycle Interval	60s
Low Voltage Detection	Toff adjustable 60 to 170ms
Input Voltage	170... 460Vac 47... 63Hz 3PH
Nominal voltage	200/400Vac selectable
AC Continuous Current	3x 32A
Load capacity	2000uF
Connectors	Spring-type-terminal 0,5... 16mm <sup>2</sup> , 22... 8AWG
Ambient Operating Temperature	-20°C... +60°C no derating
Cooling	Natural convection
Dimensions (WxHxD)	95 x 155 x 122mm
Special Features	Integrated & complete phase monitor Asymmetry, phase lost, phase sequence Accuracy ±6%, independent from ambient temperature Extending monitoring Each phase limited independently Ballast and capacitive loads Active & precise measuring circuit Bypass circuit each phase Built in switch mode power supply

**Category:**

**UMS DC FET-Relay Wearless**



## UMS00025

- DC Power Relay, DC Power Switch, Mosfet Relais
- Sense Switched
- Masterstop for DC-Drives
- Parallel operation N+1 to extend the power load

□

## UMS00025

Model	UMS00025.20	UMS00025.30	UMS00025.40
Power	600W	600W	600W
DC voltage switching capability	0... 60Vdc	0... 40Vdc	0... 30Vdc
Current switching capability	10A	15A	20A
Surge current for 10ms	40A	60A	80A
Re-Routing	Left/right		
Output	Power MOSFETs		
Resistor	Low Rds-On		
Switching Operations	>100 Mio.		
Confirmation Control signal	left/right		
Cooling	Natural Convection		
Ambient Operating Temperature	-20°C up to +70°C		
Control Input-/output	I/Os galvanic insulated		
Connection	Spring-type-terminal up to 25mm <sup>2</sup>		
Control Signal	Sub-D 15Pole. IEC807		
External Supply Voltage	19,2... 28,8Vdc		
Dimensions WxHxD	65 x 124 x 96mm		
Special Features	Programmable sense operation		
	Master stop		
	MosFET technology => no moved parts, >10 <sup>9</sup> cycles		
	Parallel operation N+1 power capability increase		
	Temperature monitoring		



## UMS00050

- DC Power Relay, DC Power Switch, Mosfet Relais
- Sense Switched
- Masterstop for DC-Drives
- Parallel operation N+1 to extend the power load

□

## UMS00050

Model	UMS00050.20	UMS00050.30	UMS00050.40
Power	1200W	1200W	1200W
DC voltage switching capability	0... 60Vdc	0... 40Vdc	0... 30Vdc
Current switching capability	20A	30A	40A
Surge current for 10ms	80A	120A	160A
Re-Routing	Left/right		
Output	Power MOSFETs		
Resistor	Low Rds-On		
Switching Operations	>100 Mio.		
Confirmation Control signal	left/right		
Cooling	Natural Convection		
Ambient Operating Temperature	-20°C up to +70°C		
Control Input-/output	I/Os galvanic insulated		
Connection	Spring-type-terminal up to 25mm <sup>2</sup>		
Control Signal	Sub-D 15Pole. IEC807		
External Supply Voltage	19,2... 28,8Vdc		
Dimensions WxHxD	65 x 124 x 96mm		
Special Features	Programmable sense operation		
	Master stop		
	MosFET technology => no moved parts, >10 <sup>9</sup> cycles		
	Parallel operation N+1 power capability increase		
	Temperature monitoring		





## UMS00100

- DC Power Relay, DC Power Switch, Mosfet Relais
- Sense Switched
- Masterstop for DC-Drives
- Parallel operation N+1 to extend the power load

□

## UMS00100

Model	UMS00100.20	UMS00100.40	UMS00100.60	UMS00100.80
Power	2400W	2400W	2400W	2400W
DC voltage switching capability	0... 120Vdc	0... 60Vdc	0... 40Vdc	0... 30Vdc
Current switching capability	20A	40A	60A	80A
Surge current for 10ms	80A	100A	240A	320A
Re-Routing	Left/right			
Output	Power MOSFETs			
Resistor	Low Rds-On			
Switching Operations	>100 Mio.			
Confirmation Control signal	left/right			
Cooling	Natural Convection			
Ambient Operating Temperature	-20°C up to +70°C			
Control Input-/output	I/Os galvanic insulated			
Connection	Spring-type-terminal up to 25mm <sup>2</sup>			
Control Signal	Sub-D 15Pole. IEC807			
External Supply Voltage	19,2... 28,8Vdc			
Dimensions WxHxD	65 x 124 x 96mm			
Special Features	Programmable sense operation			
	Master stop			
	MosFET technology => no moved parts, >10 <sup>9</sup> cycles			
	Parallel operation N+1 power capability increase			
	Temperature monitoring			