



## DC/DC CONVERTER PSC320 HV

In: 100 - 250V<sub>DC</sub>  
Out: 48/60/110/220V<sub>DC</sub> (2.0kW)

### KEY FEATURES

- 1/4 x 19", 3U
- Wide input voltage range
- Input overvoltage protection
- "Hot plug-in" design with backplane connection
- High power density
- CAN-Bus interface
- Temperature-controlled fan cooling
- Front-to-back airflow with monitored fan

### PRODUCT DESCRIPTION

Power supply modules of series PSC 320 are compact DC/DC converter with a very high power density. The DC/DC converter can be used in all DC applications with or without battery.

Due to the modular concept and a high scalability the user is able to equip the power supply with additional modules according to his actual power profile. The units are very user friendly and can be swapped and upgraded during operation.

The devices get their operation parameters via the system wide CAN communication bus. After a successful login a central monitoring unit controls and monitors the devices. In case of CAN-Bus interruption the modules operate continuously with internal default values. Up to 4 modules can be integrated in a 19" sub rack with 3U.

### APPLICATIONS


DC power supply facilities in all areas of industry, power generation and power distribution.



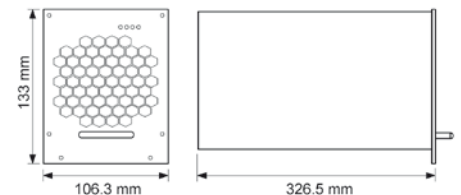
## TECHNICAL DATA

Type	PSC320-HV/48-42	PSC320-HV/60-33	PSC320-HV/110-18	PSC320-HV/220-9
Article code	201-020-758.00	201-020-768.00	201-020-778.00	201-020-788.00
Input voltage range	100 – 250V <sub>DC</sub> ± 10%	←	←	←
Nominal input current	20.7A <sub>DC</sub> @ 110V <sub>DC</sub> / 10.3A <sub>DC</sub> @ 220V <sub>DC</sub>			
Input frequency range	DC	←	←	←
Efficiency	≥89%	←	←	←
Internal input fusing	32A (6.3x32mm)	←	←	←
Nominal output voltage	48.0V <sub>DC</sub>	60.0V <sub>DC</sub>	110.0V <sub>DC</sub>	220.0V <sub>DC</sub>
Nominal output current @ nominal output voltage	42.0A <sub>DC</sub>	33.0A <sub>DC</sub>	18.0A <sub>DC</sub>	9.0A <sub>DC</sub>
Nominal output power	2000W; power limited	←	←	←
Adjustable output voltage range	43.2 - 52.8V <sub>DC</sub>	54 - 66V <sub>DC</sub>	99 - 121V <sub>DC</sub>	198 - 242V <sub>DC</sub>
Default output voltage	48.0V <sub>DC</sub>	60.0V <sub>DC</sub>	110.0V <sub>DC</sub>	220.0V <sub>DC</sub>
Voltage ripple	≤20mV <sub>pp</sub>	≤20mV <sub>pp</sub>	≤100mV <sub>pp</sub>	≤200mV <sub>pp</sub>
Psophometric acc. to CCITT-A	<1.8mV	<1.8mV	---	---
Dynamic accuracy of the output voltage	<3% V <sub>nom</sub> at load changes between 10%-90%-10% I <sub>nom</sub> ; correction time ≤1.5ms			
Short circuit protection	Continuous short circuit proof; 1x I <sub>nom</sub>			
Parallel operation	Yes; current distribution ≤10% I <sub>nom</sub>			
Internal decoupling at the output	Yes; active, low-loss decoupling circuit in the positive output line			
Internal output fuse	63A	63A	30A	16A
LED signalling	Operation (green), Vo OK (green), Vo > (red), Alarm (red)			
Main processor	16Bit Fujitsu	←	←	←
Isolated signalling contacts	"General fault"; optocoupler COM/NC			
Communications interface	CAN-Bus, proprietary protocol			
Ambient temperature	Operation: -20°C to +55°C, storage: -40°C to +85°C			
Cooling	Fan cooling (temperature-regulated; monitored)			
Climatic conditions	according to IEC 721-3-3 class 3K3/3Z1/3B1/3C2/3S2/3M2			
Max. installation altitude	≤ 1500m	←	←	←
Audible noise	<45dBA	←	←	←
Type of construction	1/4 x 19", 3U	←	←	←
Dimensions (W/H/D)	106.3/133/326.5mm	←	←	←
Weight	approx. 3.9kg	←	←	←
Type of enclosure / Protection class	IP20 (front panel) / 1	←	←	←
Colour (front panel)	RAL 7035, black imprint			
CE conformity	yes	←	←	←
Compliance to safety standards	EN60950-1; VDE0100 T410; VDE0110; EN50178; EN60146			
Compliance to EMC standards	EN55011/22 class "A"; EN61000-4 T2-5			
Connections	DC input, DC output and signalisation: DIN41612-M-connector			

## OPTIONS

Article code	View	Designation
202-320-408.00		Assembly set 19" sub rack 3U incl. backplane for 4pcs. DC-DC converters PSC3xx (single input/output connections)

## DIMENSIONS



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