DPS Series-Battery Charger (BGS-BC)



Dimensions (HWD) in mm: 145*67*140

Eram Power electronics DPS-Series BGS-BC-XXX DIN rail power supplies are the doers for providing reliable, stiff, ripple-free DC voltage from single-phase mains (230 V AC) for industrial automation control cabinets and battery charging, valued for their standardised mounting, robustness, and integration capabilities. The Modularity Integrates seamlessly with other DIN rail components (PLCs, relays, terminal blocks), creating organised and modular DC rail power supplies for sophisticated applications.

The modular design enables the DC power supplies/battery chargers to fit within crowded control panels, often featuring narrow profiles to maximise rail space. An industrial communication protocol has been enabled, and the interface is available at the front panel to support communication with the external world, where most of the parameters can be monitored and controlled.

Electrical Specification				
Parameters	**Value**			
Output	Model no	BGS-BC-12 V-XX X	BGS-BC-18 V-XX X	BGS-BC-24 V-XX X
	Nominal DC voltage	12 V DC	18 V DC	24 V DC
	Output current range	0-20 A	0-20 A	0-15 A
	Output total power	0-240 W	0-360 W	0-360 W
	Battery voltage range	11-15 V DC	16-22 V DC	22-28 V DC
Output Current In=I load (Battery +Load)	0-20 A			
Efficiency (at 100% of rated current)	≥90%			
Turn-On delay after applying mains voltage	0.5 sec. (max)			
Short-circuit enabled	Yes			
Over Load protection	Yes			
Over Voltage Output protection	Yes			
Input OV/UV protection	Yes			
Overheating Thermal protection	Yes			
Input				
Nominal Input Voltage Vac	230			
Voltage range Vac	170-265			
Inrush Current (Vn – In nom. Load) I2t	≤ 35 A ≤ 3 msec.			
Frequency	50 Hz, +/- 5 Hz			
Input Current (170 – 265 Vac)	3 – 1.5A			
Input UV/ OV protection	Provided			

*XX X indicates the Current in A

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Electrical Specification	
Parameters	**Value**
Battery Output	
Output Voltage Battery, VDC Nominal (V_n)	12, 18, 24
Float Charge Boost charge configuration	Through Modbus
Charging current max I_{batt}	0-20 A ± 5%
Charging current limiting I_{adj}	10 – 100 % of rated max capacity of the charger
Short circuit Element Detection	Yes
Quiescent Current max	≤100 mA
Remote system Control	Through modbus
Load Output	
Output voltage V DC (at I_n)	12, 18, 24
Nominal current I_{load}	0-100%
Continuous current (Without battery) $I_{load}= I_n$	20 A max
Continuous current (With battery) $I_{load}= I_n+ I_{batt}$	20 A max
Environment	
Operating temperature	0°C to + 70°C
Storage temperature	- 20°C to + 85°C
Cooling	Forced cooled, BLDC fans
Humidity	5 to 95 % RH, Non condensing
Altitude	2000m
Others	
Dimensions (HWD) in mm	145*67*140
Weight	650 gm
Mounting	35 mm DIN rail



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