

BC-5000

BATTERY CHARGER



POSITIVE PROBLEM SOLVING **+ =**

The BC-5000 is a high performance battery charging system with an extremely wide input voltage range.

Relatively low levels of input energy are needed to power your application due to the unit's high efficiencies of >90%. An integrated battery charging management system maximises both the capacity and cycle life of the battery. The intelligent three stage charging system is suitable for a variety of rechargeable chemistries including Lithium-Ion, Lead Acid and Nickel based.

- + Integrated Management System**
- + Input Range 250VDC - 750VDC**
- + 5kW in 19 × 3U × 360 mm**
- + Efficiency >90%**

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FURTHER DETAILS

Safety features include galvanic isolation of input and output, over voltage and short circuit protection. The BC-5000 is ideal for use in a variety of industries that require 48V battery packs, ranging from power plants and industrial systems to telecommunications and rail.

TECHNICAL DATA

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DC Input Voltage Range	250VDC to 750VDC
Output Voltage	50VDC
Output Power	5000W
Battery Charging	48V to 58V
Output Characteristic	VPI characteristic, transition from P to I at ≤ 50 VDC
Efficiency	>90% [at 20 to 100% load]
Parallel Operation	Redundant de-coupling of the modules with diode function
Connection Terminals: DC Input	3 x HDFK10 feed-through terminal block
Connection Terminals: DC Output	2 x HDFK16 feed-through terminal block
Protective Functions: DC Input	Electric strength 800V
Protective Functions: DC Output	Over voltage protection, repetitive trace function tripping value ≥ 60 VDC, short circuit IC=100A
Protective Functions: Leakage Current	A fixed protective earth (PE) connection must be setup
Isolation Group	According to EN 60950, pollution degree 2
Ambient Temperature During Operation	-20°C to +65°C
Derating	From 60°C 2% / C
Maximum Operation Altitude	2000 metres
Protection Class	IP 20
EMC: Emission	EN 55022 class B
EMC: Immunity	EN 55024, EN61000-6-2 [industrial areas]
Warranty	24 months
Electrical Safety	EN 60950, UL 94
Cooling	Forced ventilation, electronically controlled fans

Different output ranges and application/user specific options are possible. Please contact ETPS Ltd to discuss your requirements.

SELECTION TABLE

Part Number	Output Power	Input Voltage	Output Voltage	Dimensions [W × H × D]	Weight
BC-5000 540-48	5kW	250 - 750VDC	50VDC	19" × 3U × 360mm	14kg



Every effort is made to ensure that the information provided within this technical summary is accurate. However, ETPS Ltd must reserve the right to make changes to the published specifications without prior notice. Where certain operating parameters are critical for your application we advise that they be confirmed at the time of order. ETPS Ltd specialises in modifying its proven platforms to suit your needs. Please contact our office if your requirement is non-standard. Please note that your actual unit may differ from those shown.



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