

Technical Data Sheet

PMC02A platform P-series battery charger



64 Watts 2 bay desktop professional modular battery charger

Features:

- 32W maximum charging power per bay
- Consisting of a base charger and a customizable battery adapter module
- Two bay charger for Smart batteries
- Suitable for cell chemistries NiCd, NiMH, LiIon or LiPoL
- Fast design modification for battery adapter modules
- Very safe charging, monitoring of cell-voltage, cell-temperature and charge time
- Wide input voltage range for worldwide use
- With external power supply
- International approvals for safety and EMI

Applications:

- Suitable for use with notebook and other IT batteries as well as RRC standard batteries

Specification PMC02A

Input

Voltage	19-24VDC
Power	65W max.
Current range	0 - 3.42A

Output

Voltage range	0 – 16.8VDC
Power	2 x 32W max.
Current	0 – 3.3A
Voltage tolerance ⁽¹⁾	±1% max.
Current tolerance ⁽¹⁾	±10% max.
Protection	Short circuit Over temperature shutdown

Environmental

Cooling	convection cooled
Temperature	Operating: 5°C to 35°C Non-operating -10°C to 60°C
Pressure & altitude	Operating: 1060hPa to 795hPa -382m to 2000m Non-operating: 1060hPa to 572hPa -382m to 4570m
Humidity	5 to 95% r. H., non-condensing

General

Battery Adapter	Customized
Efficiency ⁽²⁾	typical 80% at 100% load
MTBF	> 20000h at 25°C and full load per MIL-HDBK 217F
Green procurement	RoHS WEEE Chinese RoHS
Indicator	LED panel (See next page)

Operation display

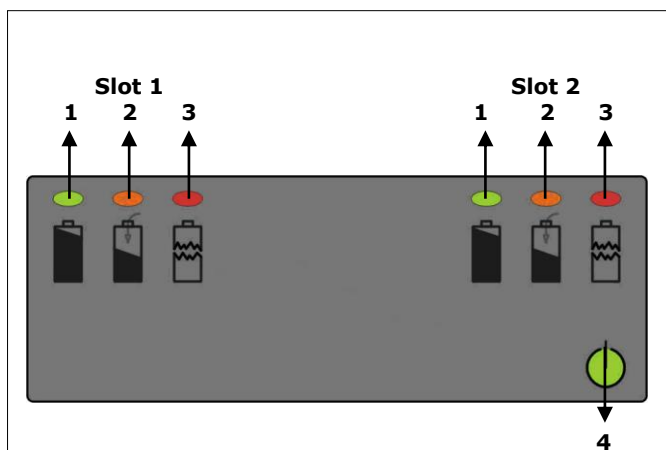
LED Indicator	LED color	Charging condition
LED N°4	Off Solid green	Battery charging station is not supplied Battery charging station is supplied
LED N°1	Solid Green	Charging complete
LED N°2	Solid Amber	Charging in process (rapid or trickle)
LED N°3	Solid Red Blinking Red	Abnormal charge mode (due to defective battery) Standby mode (due to abnormal temperature)
LED N°1, 2, 3	Off	Battery not installed or improperly installed.

Notes:

1. Total regulation tolerance includes initial set accuracy, line and load regulation
2. Power losses of input and output cables are not considered here.
Ambient temperature $T_A = 20^\circ\text{C}$ unless otherwise noted.

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Safety & EMC		
Regulatory approvals	Europe USA, Canada Australia Russia (Custom Union) Korea China Japan International	CE cULus UL60950-1 RCM EAC KC CCC PSE CB Report IEC60950-1
Electromagnetic emissions	Europe USA	EN55022, level B, EN55024 FCC15 class B
Electromagnetic Immunity	ESD immunity Electromagnetic field immunity EFT / Burst Surge Conducted Immunity Magnetic Fields	EN/IEC61000-4-2, 4/8kV, performance criteria B EN/IEC61000-4-3, 3V/m, performance criteria A EN/IEC61000-4-4, 1kV, performance criteria B EN/IEC61000-4-5, 1kV, performance criteria B EN/IEC61000-4-6, 3V, performance criteria A EN/IEC61000-4-8, 3A/m, performance criteria A

Mechanical details	
Housing dimensions (LxWxH)	155 x 225 x 95 mm
Operation display dimensions (LxWxT)	83 x 30 x 1.3mm
Weight	610 g (without module)

Battery charger module PMCM027 for RRC batteries and similar footprint



General	
Battery Adapter for	RRC 2024, RRC2020, RRC2040 or compatible smart batteries with a similar footprint (e.g. 202x range, 204x range, 205x range, DR36, etc.)
Housing dimensions (LxWxH)	158 x 99.50 x 46.65mm
Weight	200g

Other battery charger modules

PMC module name	Battery adapter for
PMCM016	XTB
PMCM017	CF-VZSU30, CF-VZSU30B, CF-VZSU48, CF-VZSU-50 (Toughbook CF18/19/50)
PMCM018	CF-VZSU29, CF-VZSU29A, CF-VZSU46 (Toughbook CF29/30)
PMCM019	GD (General Dynamic) Batterien (GD-MR1)

Germany/Headquarters	USA	Hong Kong	China
RRC power solutions GmbH Technologiepark 1 D-66424 Homburg / Saar	RRC power solutions Inc. 18340 Yorba Linda Blvd., Suite 107-437 Yorba Linda, CA 92886-4104	RRC power solutions Ltd. S-V,6/F, Valiant Industrial Centre 2-12 Au Pui Wan Street Fo Tan, N.T., Hong Kong	RRC power solutions Ltd. Room 520, Yuanlin Building, Aiguo Road No. 3066, Luohu District, Shenzhen 518021
Tel.: +49 6841 98090 Fax: +49 6841 9809280 Email: sales@rrc-ps.de Web: www.rrc-ps.de	Tel.: +1 714 777 3604 Fax: +1 714 777 3658 Email: usa@rrc-ps.com Web: www.rrc-ps.com	Tel.: +852 2376 0106 Fax: +852 2375 0107 Email: hkrrc@rrc-ps.cn Web: www.rrc-ps.com	Tel.: +86 755 8374 1908 Fax: +86 755 8374 1861 Email: hkrrc@rrc-ps.cn Web: www.rrc-ps.com