Technical Data Sheet

PMC10A platform P-series battery charger

320 Watts 10 bay desktop professional modular battery charger

Features:

- 32W maximum charging power per bay
- Consisting of a base charger and a customizable battery adapter modules
- 10 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
- International approvals for safety and EMI

Applications:

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

Specification PMC10A

Input	
Voltage	100 - 240VAC
Frequency	50 – 60Hz
Current range	4.3A - 1.8A
Inrush current	230 VAC / <70A, cold start up
Protection	Input fuse Undervoltage

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

Environmental	
Cooling	Fan 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 85% 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°C unless otherwise noted.

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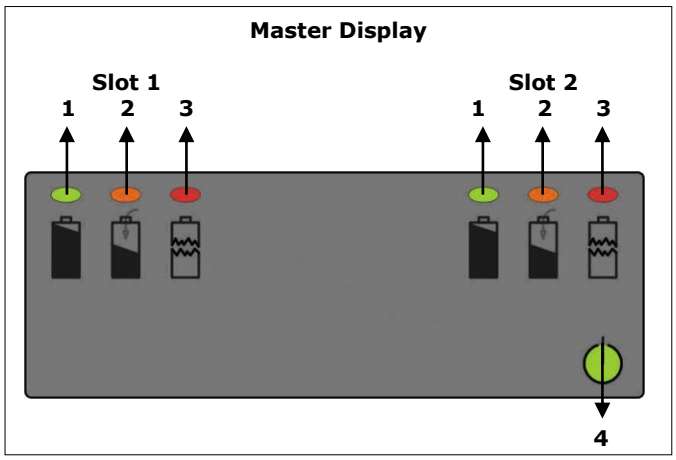

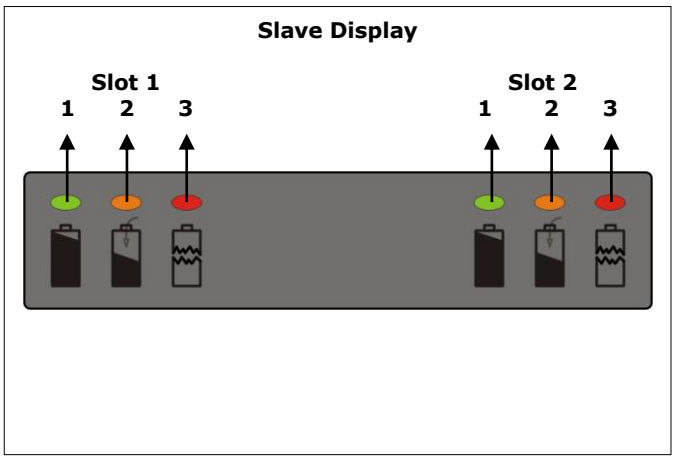

- for the Master Display: customised display layouts are possible – please feel free to ask

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

Mechanical Details	
Housing dimensions (LxWxH)	555 x 225 x 170 mm
Operation display dimemsinons (LxWxT)	83 x 30 x 1.3mm (Master) / 83 x 18 x 1.3mm (Slave)
Weight	5000 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)

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