

# Technical Data Sheet

## D90512 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 smart / 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 <sup>(1)</sup>	±1% max.
Current tolerance <sup>(1)</sup>	±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 <sup>(2)</sup>	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

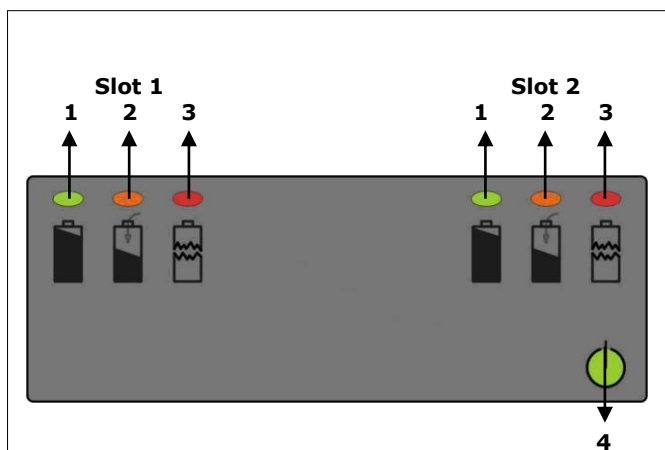
LED Indicator	LED color	Charging condition
LED N°4	Off Solid green	Battery charging station is not supplied Battery charging station is supplied
LED N°1	Solid Green	Charging complete
LED N°2	Solid Amber	Charging in process (rapid or trickle)
LED N°3	Solid Red Blinking Red	Abnormal charge mode (due to 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 our smart batteries and similar footprint



General	
Battery Adapter for	D92024, D92020, D92040 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)