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Smart Battery Charger

Model: Demo/CHR-8668

Benefits

Fully automated Li-ion battery charging system

- Built in microcontroller with battery health detection
- Revives deep discharged or dead batteries
- Compact, rugged design suitable for tactical use
- Plug-and-play operation

Key Features

Single-slot intelligence desktop charger

- ESD protection up to 4 kV
- Optimized for 2S Li-ion (8.4V limit) battery packs
- Dual LED indicators for charge status
- 12v external DC adapter input

Technical Specifications

- Output Voltage (typ.): 8.4 DC
- Current Range: 0.10 - 1.25 A
- Output Rated Power: 10W max.
- Voltage Tolerance: ± 1 % max
- Current Tolerance: ± 3 % max @ 4A
- Input Voltage Range: 90 - 264V AC
- Input Frequency: 50 - 60 Hz
- Power Factor: > 0.97 @ 80V AC
- Efficiency: 90%
- Input AC Current: 0.5A @ 230V AC
- Inrush Current: 1.0A @ 230V AC
- Leakage Current: ~ 1.0 mA @ 240V AC

Environmental Conditions

- Operating Temp.: -30°C to+ 70°C
- Storage Temp.: -40°C to +85°C
- Humidity: 20% - 90% RH (non-condensing)

Mechanical Dimensions

- Dimensions (LxWxH): 114 x 114 x 49 mm \pm 1 mm
- Weight: 140 g \pm 10 g
- Colour: Black

LED Indicator Behaviour

- Single Blink Green: Charger powered up successfully
- Steady Red: Battery is in rapid charge mode
- Blinking Green: Top-off trickle charge
- Steady Green: Fully charged
- Blinking Orange: Battery recognized but waiting to charge
- Blinking Red: Unchargeable battery or bad contact

Charging Procedure

- Plug the charger into AC power. A green blink confirms startup.
- Insert the battery into the cradle, aligning rails and contacts.
- Charger will auto-detect, initiate charge, and update LED status accordingly.