

Golden Mask smart battery charger

SPECIAL FEATURES

- Pulse charging mechanism provides the best effect and protect the battery.
- Temperature protection. Detecting the temperature of both the charger and the Batteries. The latter only active for the packages with thermistor built in.
- Automatically checking the numbers of batteries (5PCs to 12PCs seriesl connected), automatically adjusting the output voltage.
- Accurate constantl charging current control.
- Perfect short circuit protection and prompt. Current becomes much less than the rated charging current when short circuit occurs.
- Perfect Battery reverses protection.
- Auto repair the over-discharged batteries.
- Dual color LED shows the operating condition of the charging progress.
- Auto distinguishes the non-rechargeable batteries.

APPLICATIONS

v. 1 for NiMH / NiCd battery packages | v. 2 for Li-Ion battery packages

Trickle Current:

When „Golden Mask“ battery charger detected the battery fully charged, It lowers the current by adjusting the PULSE Ratio to 1/20. This avoids the so-called battery self-discharge and complementarily charges the battery.

Multi-Color Indicating LED

Plug ON	RED:GREEN flash show the charger is ready
No batteries	GREEN
Charging Progress	RED
Full charged, trickle on	GREEN
Short circuit	RED BLINK QUICKLY
Battery reverse	RED BLINK QUICKLY
Repairing Batteries	RED BLINK SLOWLY
NTC thermistor short	GREEN BLINK SLOWLY
Battery voltage too low	RED:GREEN:YELLOW BLINK ALTERNATELY
Temperature protect	OFF



Product Specifications (v. 1)

INPUT UNIT:

Rated Voltage: AC110/220V
Voltage allowed: AC90—265V
Rated Freq: 50/60Hz
Rated Current: 100mA (220V full load):
200Ma/100V
20mA (220V no load)
Max Current: 150mA (220V full load)
30mA (220V no load)

OUTPUT UNIT:

Ratedl Voltage:Automatically adjust from
6V—15V

Max voltage (with no load): 20V
Rated Current: 500mA (450mA---600mA)
Trickle Current: 35--50MmA (Pulsel ratio 1/20
+10mA)
Short Circuit Current: 10—20mA
Battery repairingl Current (Voltage less than 6V):
50-100MA

CONTROL UNIT:

V Detect: D -I -5mV
V Detect: 50—65SD 0
Temperature protect: Power Supplier IC =I 150°C
Temperature protect (optional): Battery package

45—55°C
Using 10K MF52 NTC, B=3950
Battery numbers: 5—10 PCs series connected
Pulsel ratio: 31/32 512mS/Pirotde
Timer: 6 Hours

ENVIRONMENT:

Ambientl Temperature: -10—40°C
Ambient Humidity: 30%—85%
Storage Temp: -20—70°C
Storage Humidity: 30%—90%