# PBN6C Series

35-40 WATTS THREE STEP CHARGER



## FEATURES

- Universal input voltage
- Ideal for “World Wide Use”
- LED indicator with 3 different colours
- IEC 320/C8 input connector
- Meets the safety standard for medical equipment – EN 60601
- 12V and 24V voltage versions



## SPECIFICATIONS

| INPUT | | |
|---|---|---|
| Input voltage | 90-264 ± 10% VAC | |
| **OUTPUT** | | |
| Model numbers | PBN6C-12H | PBN6C-24H |
| Output Voltage<br>* Cycle mode<br>* Standby mode | 12V<br>14.7V ±0.2V<br>13.8V ±0.3V | 24V<br>29.5V ±0.2V<br>27.7V ±0.3V |
| Max. output power | 35 W | 40 W |
| Current limit | 2.3A ±0.3A | 1.3A ±0.2 A |
| Load regulation (20mA-2/1A load change, 230 V mains | <200 mV | <200 mV |
| Line regulation (Mains variation 90-264 V, full load) | <100 mV | <100 mV |
| Switch frequency, approx. | 45 kHz | 45 kHz |
| Leakage current with mains disconnected | <100 uA | <200 uA |
| Temperature range | -10 – +40°C | |
| Ripple | < 100 mV p-p | |
| **OPERATING** | | |
| Efficiency (at 100% load) | >81 % | > 81 % |
| Protection | Mains fuse. Automatically resetable fuse protects the charger against wrong polarity. | |
| Insulation class | Class II | |
| Indicator | | |
| * Orange (constant current) | 2,3 A | 1,3 A |
| * Yellow (constant voltage) | 14,7 V | 29,5 V |
| * Green (constant voltage) | 13,8 V | 27,6 V |
| Timer | 2h ( 30min (also available with other values) | |
| **ENVIRONMENTAL** | | |
| Temperature range | -10 – +40 (°C) | |
| Cooling | Free convection | |

| STANDARDS AND APPROVALS | |
|---|---|
| Electrical safety | EN 60601-1, EN 60950, EN 60335-2-29 |
| EMC standards<br>* Medical<br>* Emission<br>* Immunity | <br>EN 60601-1-2<br>EN 61000-6-3<br>EN 61000-6-1 |
| C-Tick | AS/NZS2064 CISPR11: Group 1, Class A |
| **MECHANICAL** | |
| Dimensions (LxWxH) | 107 x 67 x 36,5 mm |
| Weight | 250g |
| Mains connection | 2 pins IEC 320/C8 connector |
| LED indications for 12V<br>ORANGE | Quick Charge<br>The charger is in constant current mode.<br>Charge current is maximum (2.3A).<br>The battery capacity is something between 0 and 80%. |
| YELLOW | Absorption Charge<br>he charger is in timer/constant cycle voltage mode.<br>Charge current is less than maximum (<2.3A).<br>The battery capacity is something between 80 and 90% fully charged when the LED-indicator changed to yellow. |
| GREEN | Float Charge<br>Charge current is normally very low.<br>The battery is 100% fully charged.<br>The charge voltage is at float/standby level (13.8V). |

## SELECTION TABLE

| MODEL NUMBER | NOMINAL OUTPUT VOLTAGE | OUTPUT CURRENT | MAX POWER |
|---|---|---|---|
| PBN6C-12H | 13.8V | 2.3A | 35W |
| PBN6C-24H | 27.6V | 1.3A | 40W |