

# 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	12V                      24V
* Cycle mode	14.7V ±0.2V          29.5V ±0.2V
* Standby mode	13.8V ±0.3V          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 resettable 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	
* Medical	EN 60601-1-2
* Emission	EN 61000-6-3
* Immunity	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  
ORANGE      Quick Charge  
The charger is in constant current mode.  
Charge current is maximum (2.3A).  
The battery capacity is something between 0 and 80%.

YELLOW      Absorption Charge  
The charger is in timer/constant cycle voltage mode.  
Charge current is less than maximum (<2.3A).  
The battery capacity is something between 80 and 90% fully charged when the LED-indicator changed to yellow.

GREEN      Float Charge  
Charge current is normally very low.  
The battery is 100% fully charged.  
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