

PBN14C Series

60 WATT THREE STEP CHARGER

FEATURES

- 3-step charge control with timer
- Universal input voltage (90-264 VAC)
- Order mains cord separately
- Mounting bracket available
- Waterproof (IP67) version available
- Approvals:
 - Medically certified (EN 60601)
 - UL approved (UL 60601-1)



SPECIFICATIONS

INPUT	
Input voltage	90-264VAC
OUTPUT	
Model numbers	PBN14C-12K PBN14C-24K
Output Voltage	12V 24V
* Cycle mode	14.7V ±0.2V 29.5V ±0.2V
* Standby mode	13.8V ±0.2V 27.7V ±0.3V
Max. output power	60 W 60 W
Current limit	4A ±0.3A 2A ±0.2A
Switch frequency	40khz
Leakage current with mains disconnected	≤ 200µA
Ripple	≤100MV p-p
OPERATING	
Efficiency (at 100% load)	≥80 %
Protection	Mains fuses Auto, resettable fuse protects the charger against wrong polarity
Insulation class	Class 1 (Class 2 optional)
Indicator 3 colour LED	
* Orange (constant current)	12V 4A 24V 2A
* Yellow (constant voltage)	14.7V 29.5V
* Green (constant voltage)	13.8V 27.6V
Timer	2H ±30%
Temperature range	-10 – 40 degC
Cooling	Free convection

STANDARDS AND APPROVALS

Electrical safety	EN69601-1, EN60950-1, EN60335-2-29, UL60601-1
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)	135x80x44mm
Weight	350g
Mains connection	IEC320 3-pin connector
Output terminals	Battery clips, push-on
LED indications for 12V	Quick Charge The charger is in constant current mode. Charge current is maximum (4A). The battery capacity is something between 0 and 80%.
ORANGE	
YELLOW	Absorption Charge The charger is in timer/constant cycle voltage mode. Charge current is less than maximum (<4A). 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
PBN14C-12K	13.8V	4A	60W
PBN14C-24K	27.6V	2A	60W