

PBN7C Series

74-294 WATTS THREE STEP CHARGER

Features

- **3-step charge control with timer.**
Charge current not affected by fluctuations in mains voltage.
- **Medical approved – EN 60601 (74W & 147W model).**
- **Protected against reversed polarity and short circuit proof.**
- **LED-indicator with three different colours**
- **Waterproof (IP67) version available (147W & 294W model).**
- **CE-marked, C-Tick.**



Specifications

INPUT

Input voltage 190-264Vac (74W & 147W model).
198-264Vac (294W model).

Input Frequency 47-63 Hz

OUTPUT

Output Voltage 14.7V cycle, -13.7V standby
29.4V cycle – 27.4V standby

Charge Current See table

Ripple <100mV p-p

Current Limit Yes

OPERATING

Efficiency Greater than 83%

Switch Frequency 63kHz

Leakage Current with Mains

Disconnected <2.5mA (12V battery voltage)

Insulation Class 1

Insulation Voltage Primary – ground 1250Vac (74W & 147W model).
1500Vac (300W model).
Primary – secondary 3750Vac (74W & 147W model).
4000Vac (294W model).
Secondary – ground 500VAC

Indication Orange – Boost, constant current.
Red - Boost, constant current (294W model).
Yellow – Timer, constant voltage.
Green – Float, constant voltage.

Timer 2h 30min (74W & 147W model).
4h 30min (294W model).

ENVIRONMENTAL

Temperature range -25°C - +40°C

STANDARDS AND APPROVALS

Electrical Safety Standard EN60335-2-29.
EN 60601-1 (74W & 147W model).

EMC Standards
Medical EN 60601-1-2 (74W & 147W model).
Emission EN 61000-6-3
Immunity EN 61000-6-1

C-Tick AS/NZS2064 CISPR11: Group 1, Class A

MECHANICAL

IP grade IP 20 (PCB/components Protected with coating)

Dimensions (LxWxH) PBN7C-L: 158 x 171 x 54mm.
PBN7C-R: 184 x 171 x 54mm.
PBN7C-T: 215 x 186 x 63.5mm.

Weight PBN7C-L: 1.27kg.
PBN7C-R: 1.5KG.
PBN7C-T: 4KG.

Selection Table

MODEL NUMBER	TIMER MODE (VDC)	STANDBY MODE (VDC)	CHARGE CURRENT (A)	MAX POWER (W)
PBN7C-12L	14.7	13.7	5	74
PBN7C-12R	14.7	13.7	10	147
PBN7C-12T	14.7	13.7	20	294
PBN7C-24L	29.4	27.4	2.5	74
PBN7C-24R	29.4	27.4	5	147
PBN7C-24T	29.4	27.4	10	294
PBN7C-36R	44.1	40.8	3.3	147
PBN7C-36T	44.1	40.8	6.7	294
PBN7C-48R	58.8	54.8	2.5	147
PBN7C-48T	58.8	54.8	5	294