

# 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). Primary – secondary 1500Vac (147W-294W model) 3750Vac (74W model) 4000Vac (294W model) Secondary – ground 500VAC (74W-294W)
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 EN60335-2-29  
Standard 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: 2.32kg

## 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