

2040 SERIES

3 Step Battery Charger: 50 Watts



Features

- 3-step charge control with timer
- Universal input 90 - 264 VAC
- LED indicators with three different colours
- Medical safety approval
- Wide range of output connector options
- Fully isolated input - output
- Overload and short circuit protection
- Waterproof (IP67) models on request
- Optional mounting bracket

General Specifications

Input Voltage:	90 - 264VAC
Output Power:	50 watts
Output Voltage:	12V models: 13.8V float 24V models: 27.6V float 36V models: 41.4V float
Efficiency:	Typically 81%
Load Regulation:	± 1%
Line Regulation:	± 0.5%
Insulation:	3 pin IEC320 Class I
Isolation:	Input - Output: 4000VAC
Safety:	EN60601, EN60950 EN60335-2-29
EMC:	Medical: EN60601-1 Emission: EN61000-6-3 Immunity: EN61000-6-1
Operating Temp:	-10°C to +40°C
Protection:	Current limiting and short circuit protection. Automatically resettable fuse protects the charger against wrong polarity.
LED Indicator:	<ul style="list-style-type: none"> • Orange = constant current • Yellow = constant voltage timer on • Green = constant voltage float mode
Dimensions/Weight:	135 x 80 x 44mm. 350g



Description

The 2040 series is part of a family of **3-Step** chargers from 10 - 240 watts. These 3-step chargers are designed for **Cyclic** applications, where the need to re-charge a battery as quickly as possible is the main requirement. The charger operates in a boost/timer mode for approximately 2 - 3 hours. At the end of the timer period, the charger will return to a Float Voltage level, where it can be left on indefinitely. The timer is automatically activated when the AC power is switched on.

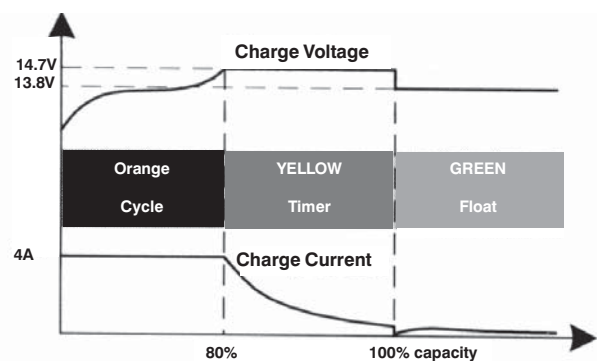
Options

- Timer:** Units can be offered with different timer periods including **zero** timer. In this case the charger operates in the float mode, making it suitable for standby applications, where battery and load are connected to the charger.
- Waterproof:** Optional **IP67** waterproof case available
- Mounting Bracket:** Optional bracket for panel mounting **P/N:201970**

Mounting Bracket option



Charging Diagram



Model	Output Cycle	Voltage Float	A	Battery Capacity
2040 - 12	14.7V	13.8V	4.0A	15 - 90AH
2040 - 24	29.5V	27.6V	2.0A	7 - 45AH
2040 - 36	44.1V	41.4V	1.4A	5 - 30AH