

2840 SERIES

Battery Charger Lead Acid Batteries: 100 Watts



Features

- 3-step charge control with current detection as charge termination.
- 12V, 24V and 36V standard models
- LED Indicators for charge cycle
- Switch mode design with wide input 198~264VAC
- Full range of Protection features
- International Safety and EMC Compliant
- Medical Safety approvals - pending
- Waterproof (IP67) option (min order qty applies)
- FLOAT Charger- option

General Specifications

Input Voltage	198 ~ 264VAC
Input Frequency	47 ~ 63Hz
Switch Frequency	65kHz
Leakage Current	Leakage current from battery with mains switched off < 1.0mA
Power	100 watts maximum
Charge Type	Current detection / termination
Operating Temp.	-25°C to +40°C at rated load. Derate 2.5% per °C from 40-60°C
Efficiency	89%
Ripple	<100mV pk-pk
Protection	Short circuit and Reverse polarity
Insulation	Class II
Isolation	Input – Output: 4000VAC / 5740VDC
Safety	EN60335-2-29 Medical EN60601-1
EMC	EN60601-2, EN61000-6-3, EN61000-6-1
Connectors	Input: 2pin IEC320 socket Output: Battery Clips
Dimensions	135 x 80 x 44mm 480g

Description

The **2840** series battery chargers are state of the art design for charging low capacity Lead Acid batteries.

The 3-step charge control is with “current detection” as charge termination with LED indicator for each step, provides the perfect charge topology for lead acid batteries that are used in cyclic application.

The medical approvals and universal power input, provides hassle free design for products that are intended for the international market or for any industrial application.

Options

IP67	Waterproof IP67 with fixed mains power cord
Mounting Bracket	For fixed / wall mount applications- P/N:201970



Charge Control – LED Indication							
Model	Output V	Step 1 – Orange Charge A	Step 2a - Orange Charge V	Step 2b- Yellow Charge A	Step 3-Green Termination	Standby V	Battery Capacity
2840-12	12V	7.0A (until 14.7V)	14.7V	<3.5 ±0.2A	1.6A ±0.2A	13.7V	40-400Ah
2840-24	24V	3.5A (until 29.7V)	29.4V	<1.7A ±0.2A	0.8A ±0.2A	27.4V	20-200Ah
2840-36	36V	2.3A (until 44.1V)	44.1V	<1.1A ±0.2A	0.5A ±0.2A	44.1V	15-150Ah