

2541 SERIES

Battery Charger Lead Acid Batteries: 36 Watts



Features

- 3-step charge control with current detection as charge termination.
- 12V and 24V standard models
- LED Indicators for charge cycle
- Switch mode design with wide input 90~264VAC
- Full range of Protection features
- International Safety and EMC Compliant
- Medical Safety approvals
- Waterproof (IP67) option



General Specifications

Input Voltage	90 ~ 264VAC
Input Frequency	47 ~ 63Hz
Switch Frequency	40kHz
Leakage Current	Leakage current from battery with mains switched off < 250µA
Power	36 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	87%
Ripple	<100mV pk-pk
Protection	Short circuit proof and Reverse polarity
Insulation	Class II
Isolation	Input – Output: 4000VAC / 5640VDC
Safety	EN60950, E60335-2-29 Medical EN60601-1, UL2601-1
EMC	EN60601-2, EN61000-6-3, EN61000-6-1
Connectors	Input: 2pin IEC320 socket Output: Cord with or without plug
Dimensions	107 x 67 x 37mm 250g

Description

The **2541** 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.

Options

IP67	Waterproof IP67 with fixed mains power cord
Mounting Bracket	For fixed / wall mount applications- P/N:201565
Output plugs	Various output plugs



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
2541-12	12V	2.2A (until 14.7V)	14.7V	<1A ±0.1A%	250mA ±20%	13.7V	3-12Ah
2541-24	24V	1.2A (until 29.7V)	29.4V	<0.5A ±0.1%	250mA ±20%	27.4V	1.5-12Ah