

# 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

<b>Input Voltage</b>	90 ~ 264VAC
<b>Input Frequency</b>	47 ~ 63Hz
<b>Switch Frequency</b>	40kHz
<b>Leakage Current</b>	Leakage current from battery with mains switched off < 250µA
<b>Power</b>	36 watts maximum
<b>Charge Type</b>	Current detection / termination
<b>Operating Temp.</b>	-25°C to +40°C at rated load. Derate 2.5% per °C from 40-60°C
<b>Efficiency</b>	87%
<b>Ripple</b>	<100mV pk-pk
<b>Protection</b>	Short circuit proof and Reverse polarity
<b>Insulation</b>	Class II
<b>Isolation</b>	Input – Output: 4000VAC / 5640VDC
<b>Safety</b>	EN60950, E60335-2-29 Medical EN60601-1, UL2601-1
<b>EMC</b>	EN60601-2, EN61000-6-3, EN61000-6-1
<b>Connectors</b>	Input: 2pin IEC320 socket Output: Cord with or without plug
<b>Dimensions</b>	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

<b>IP67</b>	Waterproof IP67 with fixed mains power cord
<b>Mounting Bracket</b>	For fixed / wall mount applications- <b>P/N:201565</b>
<b>Output plugs</b>	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
<b>2541-12</b>	<b>12V</b>	2.2A ( until 14.7V )	14.7V	<1A ±0.1A%	250mA ±20%	13.7V	3-12Ah
<b>2541-24</b>	<b>24V</b>	1.2A ( until 29.7V )	29.4V	<0.5A ±0.1%	250mA ±20%	27.4V	1.5-12Ah