

# 2240 SERIES

Battery Charger Lead Acid Batteries: 15 Watts



## 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 < 0.6mA
<b>Power</b>	15 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>	78%
<b>Ripple</b>	<100mV pk-pk
<b>Protection</b>	Short circuit proof, Reverse polarity Short circuit
<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, 3N61000-6-1
<b>Connectors</b>	Input: 2pin IEC320 socket Output: Cord with or without plug
<b>Dimensions</b>	90 x 45 x 32mm

## Features

- 3-step charge control with current detection as charge termination.
- 6V, 12V, 24V and 48V standard models
- LED Indicators for charge cycle
- Switch mode design with wide input 198~264VAC
- Low current start-up of deep discharge batteries
- Full range of Protection features
- International Safety and EMC Compliant
- Medical Safety approvals
- Waterproof ( IP67 ) option



## Description

The **2240 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: 202906</b>
<b>Output plugs</b>	Various output plugs



Charge Control – LED Indication						
Model	Output V	Step 1 – Orange Charge A	Step 2 - Orange Charge V	Step 3 – Green Charge Termination	Standby V	Battery Capacity
<b>2240-6</b>	<b>6V</b>	1.3A ( until 7.35V)	7.35V	250mA ±20%	6.85V	4-12Ah
<b>2240-12</b>	<b>12V</b>	1.0A ( until 14.7V )	14.7V	250mA ±20%	13.7V	3-12Ah
<b>2240-24</b>	<b>24V</b>	0.5A ( until 29.4V )	29.4V	250mA ±20%	27.4V	1.5-12Ah
<b>2240-48</b>	<b>48V</b>	0.27A ( until 58.8V )	58.8V	100mA ±20%	54.8V	0.8-5Ah