2240 SERIES

Battery Charger Lead Acid Batteries: 15 Watts

HELIOS POWER SOLUTIONS
www.heliosps.com.au

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

MEDICAL IP67

General Specifications

Input Voltage	90 ~ 264VAC
Input Frequency	47 ~ 63Hz
Switch Frequency	40kHZ
Leakage Current	Leakage current from battery with mains switched off < 0.6mA
Power	15 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	78%
Ripple	<100mV pk-pk
Protection	Short circuit proof, Reverse polarity Short circuit
Insulation	Class II
Isolation	Input – Output: 4000VAC / 5640VDC
Safety	EN60950, E60335-2-29 Medical EN60601-1, UL2601-1
EMC	EN60601-2, EN61000-6-3, 3N61000-6-1
Connectors	Input: 2pin IEC320 socket Output: Cord with or without plug
Dimensions	90 x 45 x 32mm

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

IP67	Waterproof IP67 with fixed mains power cord
Mounting Bracket	For fixed / wall mount applications **P/N: 202906**
Output plugs	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**
2240-6	**6V**	1.3A (until 7.35V)	7.35V	250mA ±20%	6.85V	4-12Ah
2240-12	**12V**	1.0A (until 14.7V)	14.7V	250mA ±20%	13.7V	3-12Ah
2240-24	**24V**	0.5A (until 29.4V)	29.4V	250mA ±20%	27.4V	1.5-12Ah
2240-48	**48V**	0.27A (until 58.8V)	58.8V	100mA ±20%	54.8V	0.8-5Ah