

# Lead Acid Battery Charger

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## Model P-IN2902000 24 Volt Lead Acid Charger

- Overload and short circuit protection
- 29.2V 2A 3 Stage Charger
- LED Charge Indicator
- CE and Safety Approvals



### Electrical Specification

#### INPUT

Input Voltage	90-264 VAC wide input
Input Current	1.5A max Vin 90VAC, rated load
Input Frequency	47-63 Hz
No Load Power Consumption	0.5W

#### OUTPUT

Charging Output Voltage	Open cct Voltage 27.2V $\pm$ 0.3V. See Voltage Current Charge Curves
Output Current	2A $\pm$ 0.2A. See Voltage Current Charge Curves
Output Power	58 Watts
Efficiency	$\geq$ 80%
Line Regulation	$\pm$ 2% Max
Load Regulation	$\pm$ 5% Max
Turn on Delay	3 Seconds Max
Hold Up Time	8mS Min

#### PROTECTION

Overload Protection	Hiccup mode with auto recovery
Short Circuit Protection	Capable of withstanding continuous short circuit with auto recovery
Input Protection	Internal 3.15A fuse

#### ENVIRONMENTAL

Operating Temperature	-20 to +40°C full load normal operation
Storage Temperature	-40 to +70°C
Cooling	Convection
Operation Humidity	20 to 90% non condensing
Storage Humidity	20 to 90% non condensing
Drop Test	Product dropped from height of 90cm onto dry wood surface will not be broken and pass insulation test 10M $\Omega$

#### MECHANICAL

Dimensions	153 x 60 x 36.5mm
Weight	Approx 420 grams

#### SAFETY

Hi Pot Test	3000VAC 5mA for 1 minute
Insulation Resistance	Primary to secondary 10Mohms min at 500V DC

#### EMC

Meets the following standards	FCC Part 15B (Class B) AS/NZS CISPR 22 (Class B) EN5022 (Class B)
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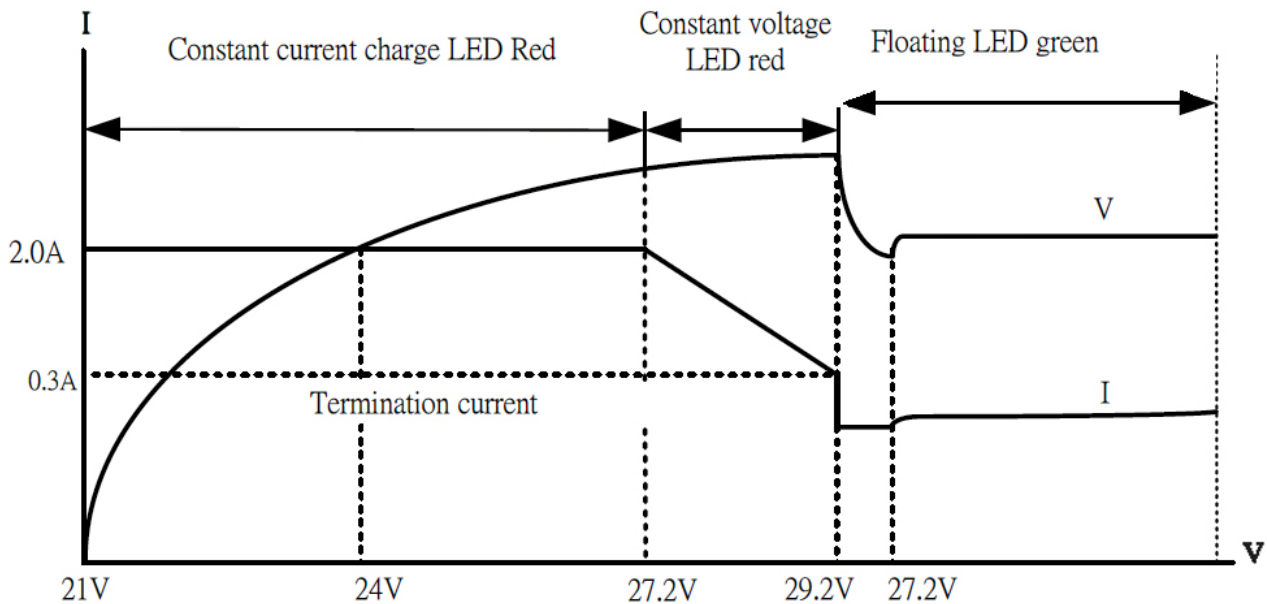
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## Voltage & Current Charging Curves



1. Charge Voltage Max  $29.2V \pm 0.3V$
2. Charge Voltage Min 21V
3. Charge Current Max  $2A \pm 0.2A$
4. Loading 12V x 2C Lead Acid Battery
5. Terminate Charge LED turns Green when current  $\leq 300mA$

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Mechanical Drawing (dimensions in mm)

