

Li-ion Battery Charger

**POWER
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www.powersolve.com.tw

Model PFY105-42-2
105 Watts 42V 2.5A



- Overload and short circuit protection
- For charging 36V 10 cell lithium ion battery pack

Electrical Specification

INPUT

Input Voltage	90-264 VAC wide input
Input Current	2.5A max Vin 90VAC, rated load
Input Frequency	47-63 Hz
No Load Power Consumption	0.21W

OUTPUT

Charging Output Voltage	Open cct Voltage 42.0V \pm 0.5V. See Voltage Current Charge Curves
Output Current	2.5A \pm 0.2A. See Voltage Current Charge Curves
Output Power	105 Watts
Efficiency	\geq 85%
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 5A 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 Ω

MECHANICAL

Dimensions	153 x 60 x 36.5mm
Weight	Approx 420 grams
Output Connector	4 pin XLR see drawing, others optional

SAFETY STANDARDS

	CE certified for EMC & LVD
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)

Note: Other voltages are available for different battery packs

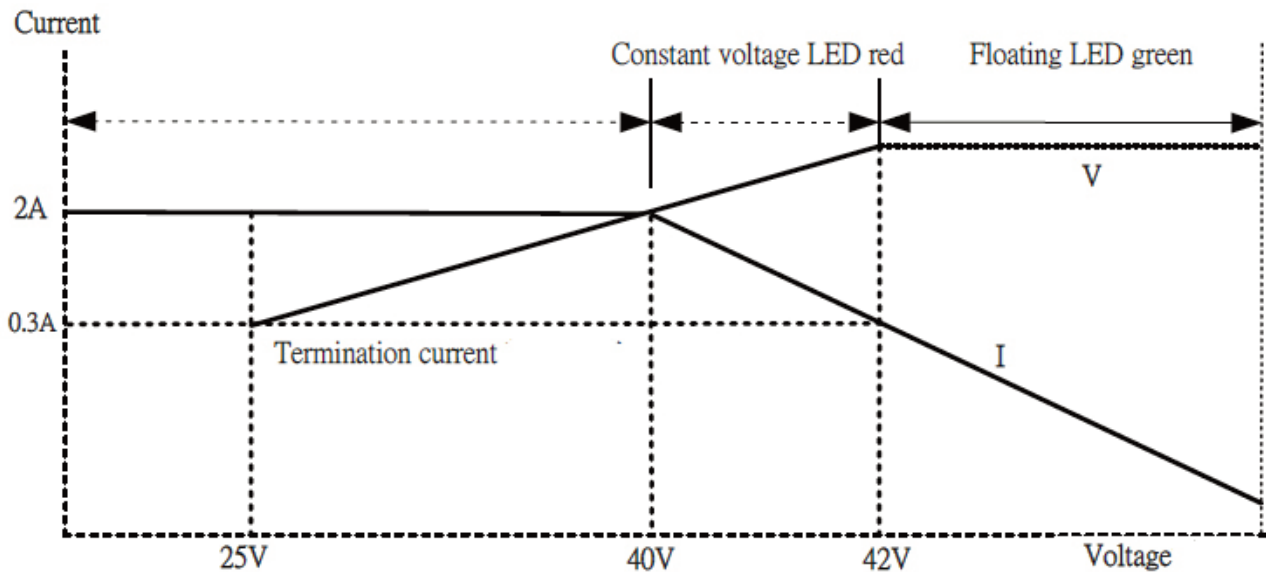
Email: sales@powersolve.com.tw

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Voltage & Current Charging Curves



1. Charge Voltage Max 42V $\pm 0.5V$
2. Charge Voltage Min 25V
3. Charge Current Max 2.5A $\pm 0.2A$
4. Loading 4.2V x 10 Lithium Cells
5. Terminate Charge LED turns Green when current $\leq 300mA$

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Mechanical Drawing (dimensions in mm)

