Li-ion Battery Charger

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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 ±0.5V. See Voltage Current Charge Curves
Output Current	2.5A ±0.2A. See Voltage Current Charge Curves
Output Power	105 Watts
Efficiency	≥85%
Line Regulation	±2% Max
Load Regulation	±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 +40ºC full load normal operation
Storage Temperature	-40 to +70ºC
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 10MΩ
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.co.uk

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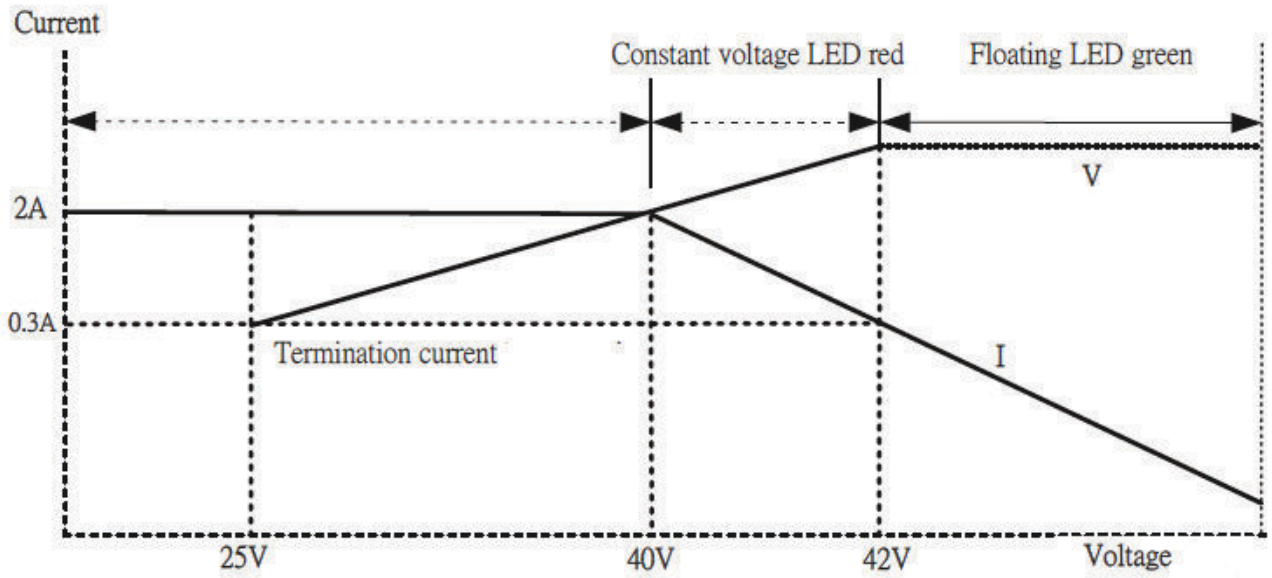
Voltage & Current Charging Curves



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

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Mechanical Drawing (dimensions in mm)