



## Features

- Battery voltage digital display
- On/Off Switch with Light
- Automatic output protection, no replacement fuse
- Fully charged & Abnormal charging indicator
- Fan cooled
- Reverse Polarity Protection
- 2 years Warranty
- Constant voltage, constant current charging
- **Can modify to Li-ion Battery (lithium iron and lithium manganese)**



Dimensions : 268.5(L) x 136(W) x 43(H)mm  
WEIGHTS : 1700g



## General specifications

### INPUT

Input range 90~264VAC  
120~380VDC  
Input frequency 47~63Hz  
Inrush current (25°C) 20A/110VAC  
40A/220VAC  
Power factor 95% Min.

### OUTPUT

Short protection Autorecovery  
Over load protection Automatic power limited  
Over temperature protection Autorecovery

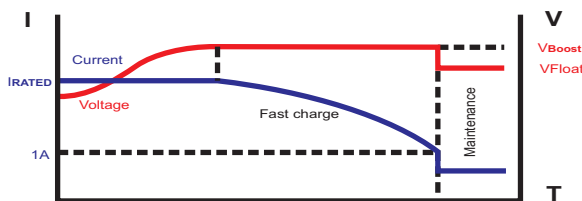
## Detail specifications

### 420 ~ 450 Watts

MODEL	O/P Volt		Charge(Current) <sub>1</sub>			Line REG. <sub>2</sub>	Load REG. <sub>3</sub>	Efficiency <sub>4</sub>	O.V.P. Trip point
	Boost	Float	Min.	Rated	Max.				
RPHF1420C-12C	+14.4V	+13.8V	0A	29.1A	29.1A	±0.5%	±0.5%	89% Ref.	16~21V
RPHF1450C-24C	+28.8V	+27.6V	0A	15.6A	15.6A	±0.5%	±0.5%	93% Ref.	33~38V
RPHF1450C-48C	+57.6V	+55.2V	0A	7.81A	7.81A	±0.5%	±0.5%	93% Ref.	61~67V

Charging Indicator  
Power On Switch Lamp On  
Fast Charge LED On  
Float Charge LED Off

## Charging Curve



## Safety Standards

	UL	UL1310	Meet
	CUL	UL1310	Meet
	CE		Marking

## CE Standards

EN 55032, EN 55035, EN 61000-3-2, EN 61000-3-3,  
(EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5,  
EN 61000-4-6, EN 61000-4-8, EN 61000-4-11),  
Heavy Industry level, criteria A  
LVD: EN 62368-1

## Environments

Operating Temperature -15 ~ 50°C, Ambient  
Operating Humidity 20 ~ 90% RH, No Condensing  
Storage Temperature -40 ~ 85°C, Ambient  
Vibration 2G, 10~500Hz, 3 axes

- NOTE:**
1. Line regulation is measured from low line to high line at rated load.
  2. Load regulation is measured from 20% to 100% of rated load at 220VAC input.
  3. Efficiency is measured at rated load and 220VAC input.
  4. Do not block the ventilation holes at the bottom of the case.
  5. Reign Power reserve the right to change specifications at any time without notice.