



## Features



DIMENSIONS : 270.5(L) x 96(W) x 49(H)mm

- Automatic output protection, no replacement fuse
- Fan speed control
- Auto timer control
- Fully charged & Abnormal charging indicator
- 200,000Hrs MTBF per MIL-HDBK-217F
- 1 year Warranty
- Reverse Polarity Protection
- Dual Colors LED Indicator
- **Output Modify Range: 3V~200VDC**

## General specifications

### INPUT

Input range	90~132/180~264VAC (Selectable) 220~380VDC
Input frequency	47~63Hz
Inrush current (25° C)	20A/110VAC 40A/220VAC

### OUTPUT

Short protection	Relay Open
Overload protection	Automatic power limited
Over Temp. Protection	84°C Inner Case
<b>6 Steps Automatic Charging Control</b>	

## Detail specifications

### 600 Watts

MODEL	O/P Volt		Charge(Current) <sup>1</sup>		Line REG. <sup>2</sup>	Load REG. <sup>3</sup>	Efficiency <sup>4</sup>	O.V.P. Trip point <sup>REF.</sup>
	Boost	Float	Min.	Max.				
RP1600C-12M	+14.7V	+13.8V	0A	40.8A	0.5%	±0.5%	82% Min.	16.2V
RP1600C-24M	+29.4V	+27.6V	0A	20.4A	0.5%	±0.5%	83% Min.	32.4V
RP1600C-36M	+44.1V	+41.4V	0A	13.6A	0.5%	±0.5%	84% Min.	48.6V
RP1600C-48M	+58.8V	+55.2V	0A	10.2A	0.5%	±0.5%	85% Min.	64.8V

## Safety Standards

	UL	Meet
	CSA	Meet
	CE	Marking
	C-Tick	Meet

Please Choose Fit Function,  
And Fill In The Blank With Suitable Words.

Order Model:RP1600C-24M

Optional Function:

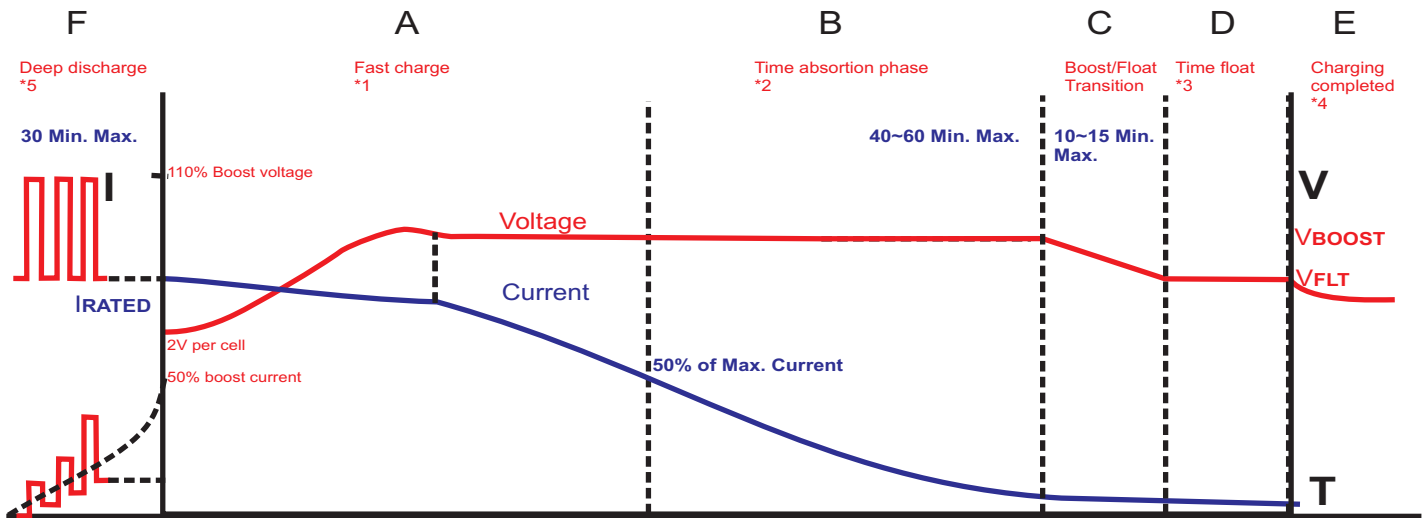
Terminal Block: "T" : PCB Barrier Terminal Block   
"W" :Wire Terminal

## EMC Standards

EN55014-1, EN55014-2, En55022 Class A  
 EN60555-2, EN60555-3  
 EN61000-4-2 ( IEC801-2)(IEC1000-4-3)  
 EN61000-4-3 ( IEC801-4)(IEC1000-4-3)  
 EN61000-4-4 ( IEC801-4)(IEC1000-4-4)  
 EN61000-4-6 ( IEC801-5)(IEC1000-4-5)  
 EN61000-4-11(IEC1000-4-6)



## Charging Curve



- \*1 Max. Boost charge time  $\leq$  12 Hrs, jump to section D
  - \*2 Charge current  $\geq$  0A, relay open, then jump to section D
  - \*3 Max. Float charge time  $\leq$  40 min. Then recharge
  - \*4 If battery voltage drop 2.1V per cell, then recharge.
  - \*5 If deep discharge over 30 min., then relay open and red LED ON.
  - \*6 Section A, B, C P.W.M control
- If charge current become 0 in any section, jump to section E.

**NOTE:**  
20% inaccuracy for all statistical of time.

### LED Indicator

Status	LED	Red	Green	Yellow
Power On		Flash (0.5 S)		
Deep Discharge		Flash (1 S)	Flash (1 S)	
Fast Charge			Flash (0.3 S)	
Time Absorption Phase			Flash (1 S)	
Boost/Float Transition			Flash (1 S)	
Float Charge			On	
Time Float			On	
Charging Completed			Flash (2 S)	
Battery Reversed		Flash (0.5 S)		
OTP				On
OVP		Flash (0.5 S)		
Output Short		Flash (0.5 S)		

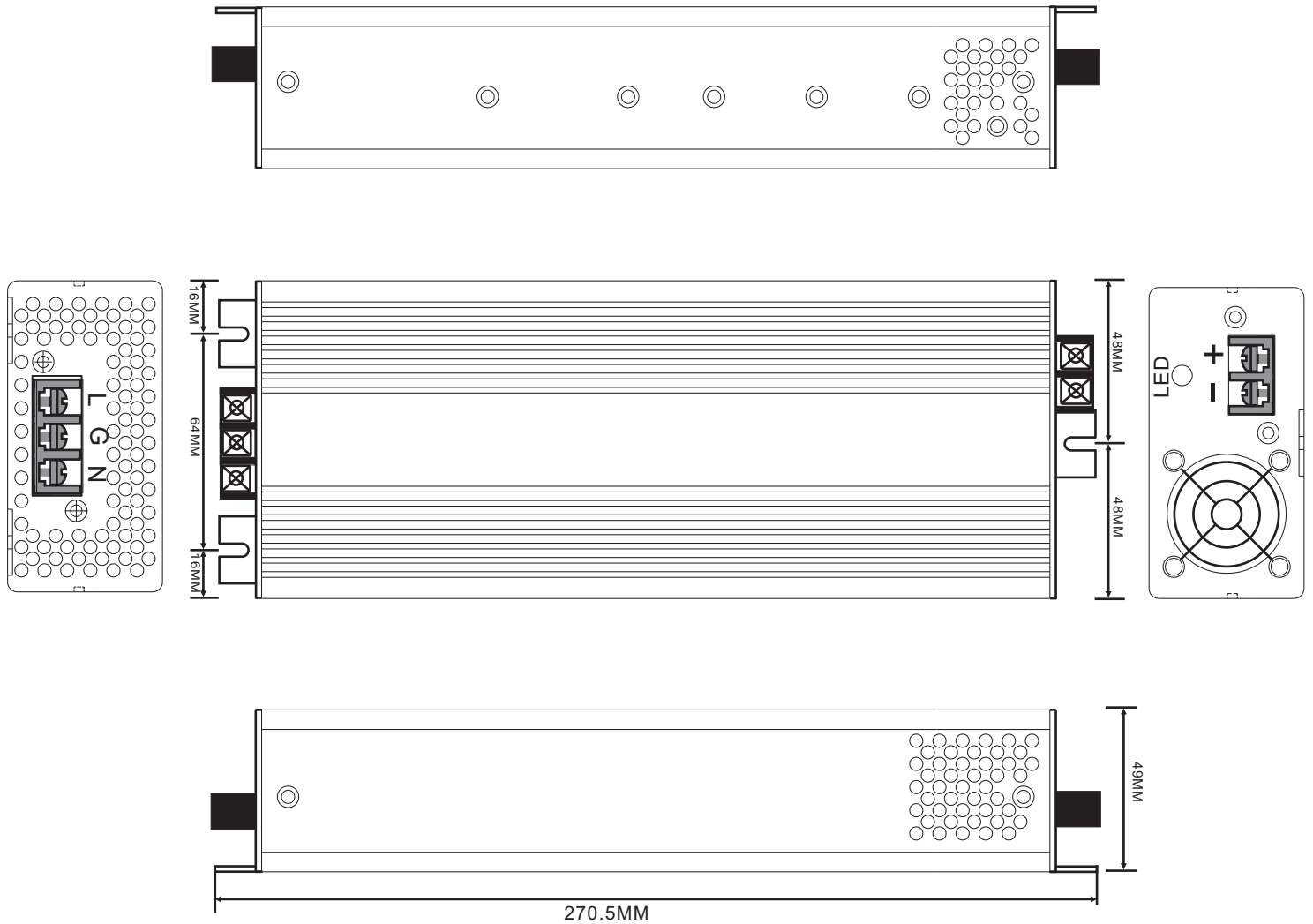
## Environments

**Operating Temperature** -15 ~ 50°C, Ambient  
**Operating Humidity** 5 ~ 95% RH, No Condensing  
**Storage Temperature** -20 ~ 85°C, Ambient  
**Vibration** 2G, 10~500Hz, 3 axes

- NOTE:**
1. Each output can provide up to maximum load, but total load can not exceed rated output power.
  2. Line regulation is measured from low line to high line at rated load.
  3. Load regulation is measured from 20% to 100% of rated load at 110VAC input.
  4. Efficiency is measured at rated load and 110VAC input.
  5. Hold-up time is measured at rated load and 110VAC input.
  6. Reign Power reserve the right to change specifications at any time without notice.



Mechanical Details



CASE NO:RP1600C

UNIT:mm

DIMENSIONS:270.5(L)\*96 (W) \*49 (H)

Reign Power reserve the right to change specifications at any time without notice.