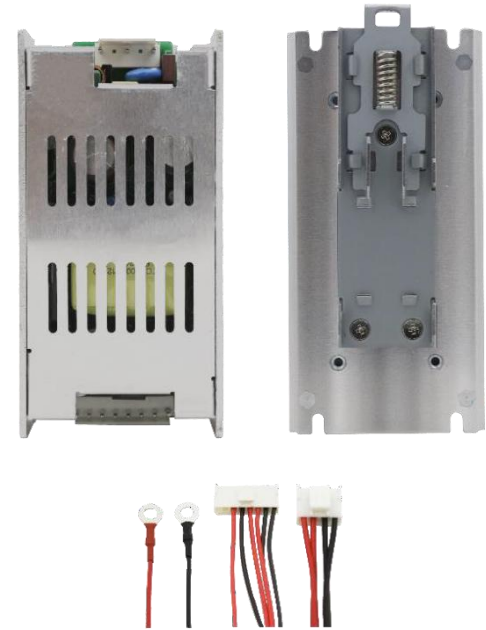


## Features:

1. Wide input range (90-264VAC, 100-370VDC)
2. Compact size 116\*57\*38mm
3. Safety class: CLASS II
4. Protection: short circuit/ over load/ over voltage/ over temperature
5. Battery protection: over-current/ over charging/
6. over-discharging/ over-voltage/ battery activation (optional)
7. Optional Bluetooth version
8. Operating temperature range: -40°C to +70°C
9. 3000V isolation voltage
10. Alarm: AC OK and BAT LOW
11. 100% high temperature burn-in and function test
12. 3 years warranty



## Selection Guide

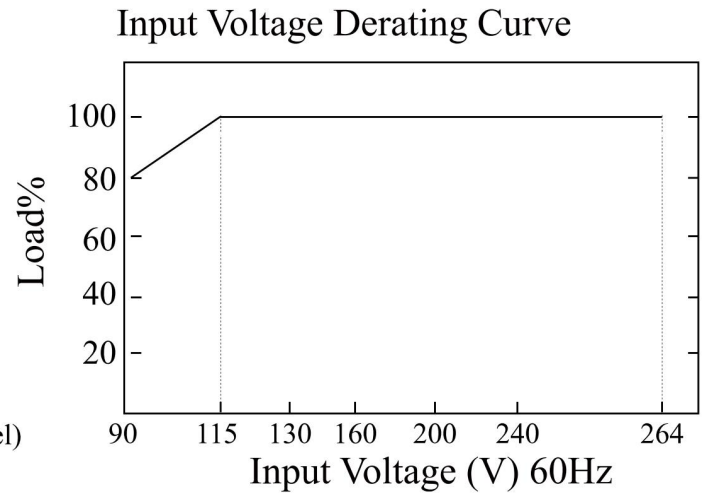
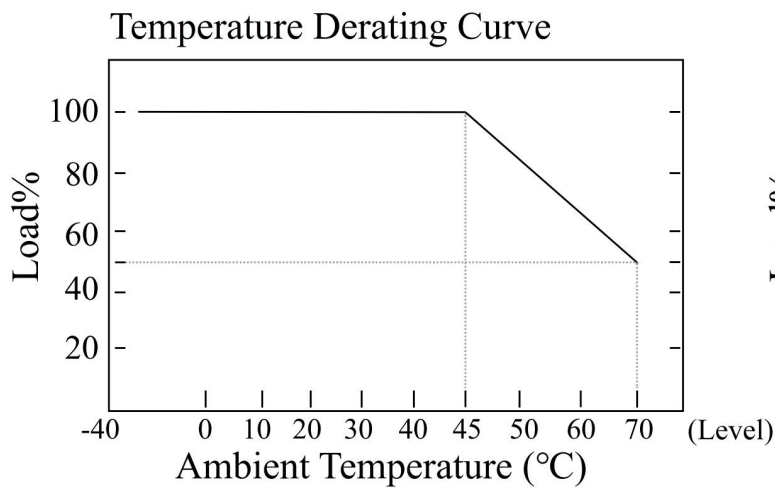
Model	Input Voltage	Rated Power (W)	Output V1		Output V2		Ripple & Noise (mVp-p)	Efficiency (%)
			Voltage (V)	Rated Current (A)	Voltage (V)	Current (A)		
CME-100-A	90-264VAC 100-370VDC	100	13.8	4.75	13.8	0-2.5 ±10%	100	86
CME-100-B		100	27.6	2.4	27.6	0-1.25 ±10%	100	87

### Specifications

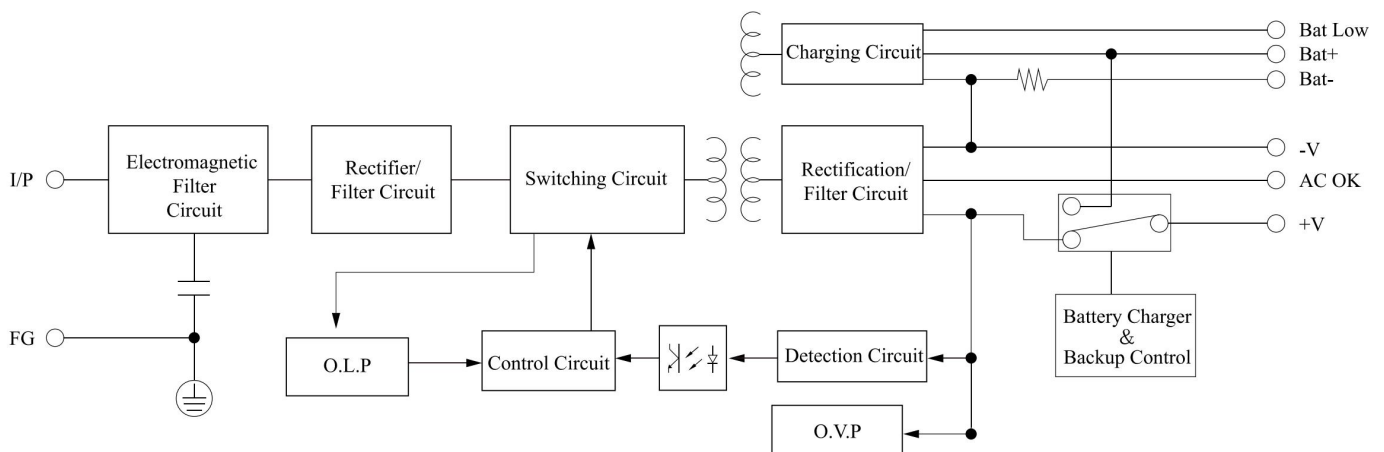
OUTPUT	Voltage Tolerance	V1: ±1.0%			
	V1 Voltage Adjustment Range	CME-100-A: 11-15V			

PROTECTION	V1 Over Load	≥110% load, recovers automatically after fault condition is removed		
	V1 Short Circuit	Hiccup mode, recovers automatically after fault condition is removed		
	V1 Over Temperature	Reduced power output or no output		
	V1 Over Voltage	Output is switched off and normal output can be restored after power restart		
		Model	CME-100-A	CME-100-B
		Range	≤16VDC	≤30VDC
FUNCTION	Alarm Function	AC OK	Normal AC supply electricity	
		BAT LOW	Battery supply electricity low	
	UPS Function	Switch AC OFF to BAT ON		
ENVIRONMENT	Working Temp.	-40°C to +70°C (Refer to "Derating curve")		
	Working Humidity	10-85%RH		
	Storage Temp., Humidity	-40°C to +105°C		
	Temp. Coefficient	0.03%/(0°C-50°C)		
	Vibration	10-500Hz, 2G, 10min./1cycle, 60min.each along X, Y, Z axes		
SAFETY & EMC (NOTE 3.)	Safety Standards	IEC60950, EN60950, UL60950		
	Isolation Voltage	I/P-O/P: 3000VAC I/P-FG(CASE): 1500VAC O/P-FG: 500VAC		
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: >100M Ohms/500VDC 25°C 70% RH		
	EMC Emission & Immunity	EN55011, EN55032 (CISPR32) CLASS B		
	ESD	IEC/EN 61000-4-2 level 4 Contact ±8kV/Air ±15kV		
	RF	IEC/EN 61000-4-3 level 4 lev3		
	EFT	IEC/EN 61000-4-4 level 4 4kV		
	Surge	IEC/EN 61000-4-5 level 4 2kV		
OTHERS	MTBF	165K hrs min. MIL-HDBK-217F(25°C)		
	Dimension	116*57*38mm (L*W*H)		
	Weight	242g/PCS		
	Package	58 PCS/Carton		
	Carton Size	360*300*250mm		
NOTE	1. All parameters not specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.			
	2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.			
	3. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives.			

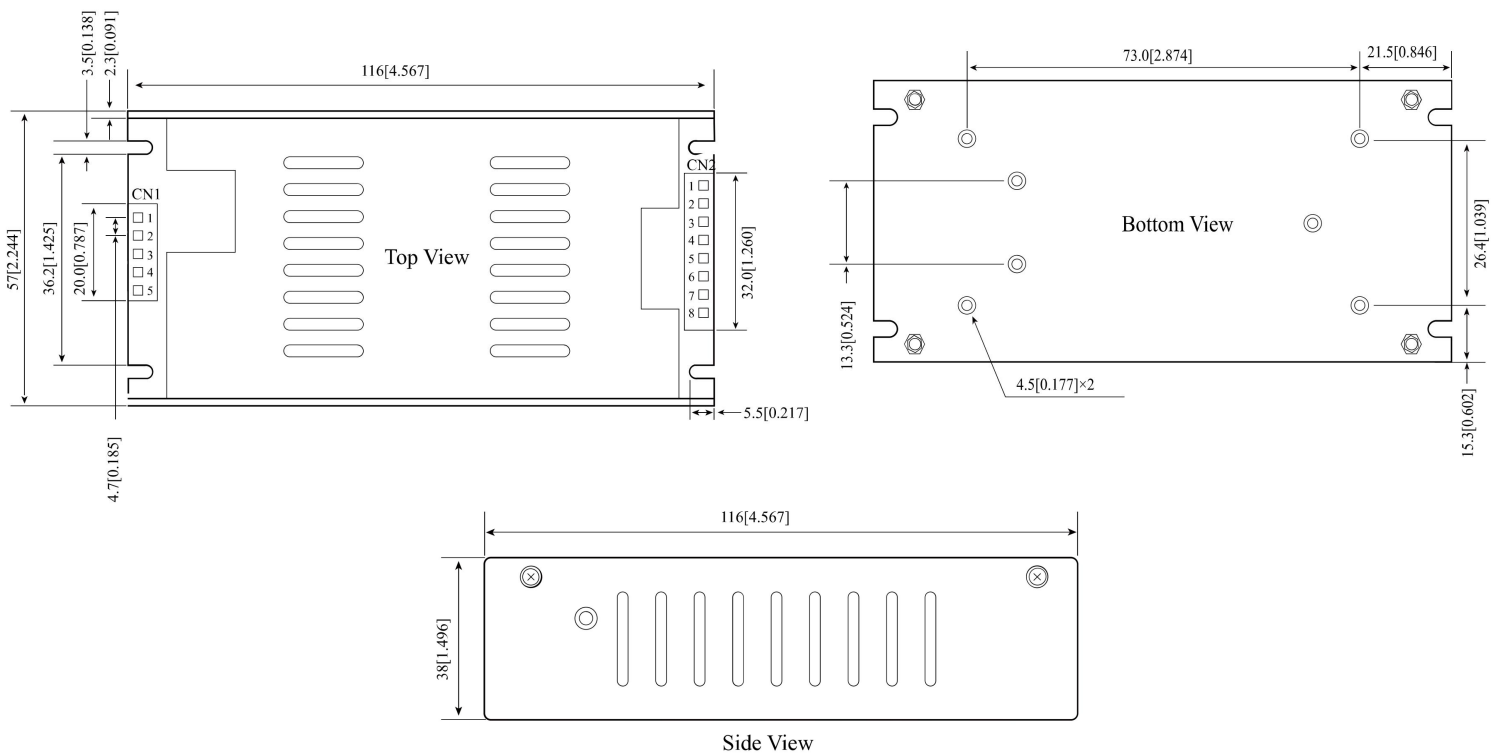
### Derating Curve

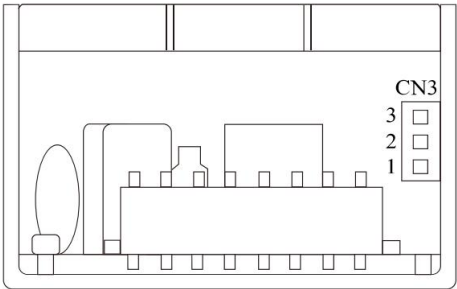


### Product Schematic



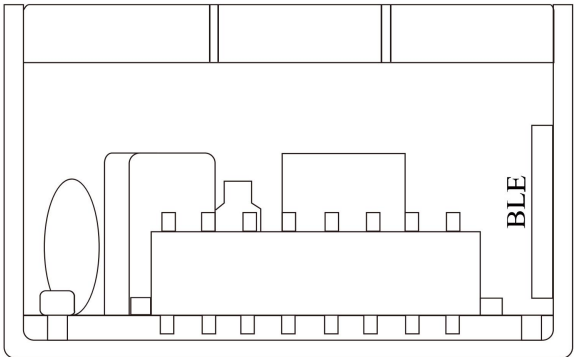
### Dimensions & Function





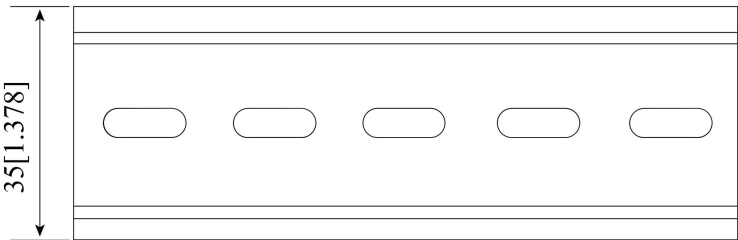
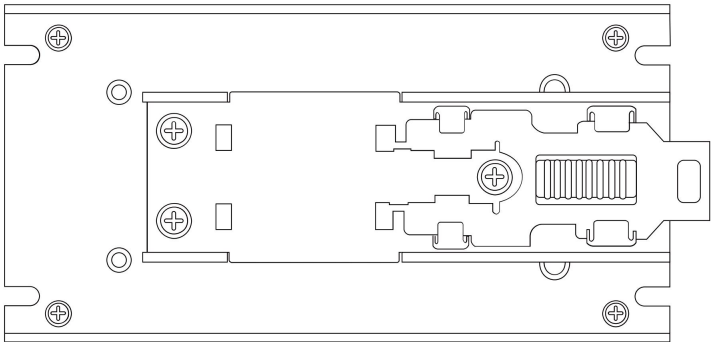
Pin Method			
Connector	Pin	Function	Customer Connection End
CN1	1	AC(L)	Coinector:JSTVHR Connector Terminals:JST SVH-21T-P1.1 Or Equivalent Products
	2	No Pin	
	3	AC(N)	
	4	No Pin	
	5	FG	
CN2	1	BLOw	Connector:JST VHR Connector Terminals:JST SVH-21T-P1.1Or Equivalent Products
	2	AC OK	
	3	Battery+	
	4	Battery -	
	5-6	+Vo	
	7-8	0V	
CN3	1	GND	Connector:JST XH Connector Tenminals:JST-XH2.54-3P Or Equivalent Products
	2	RX	
	3	TX	

Bluetooth version - BLE (optional)



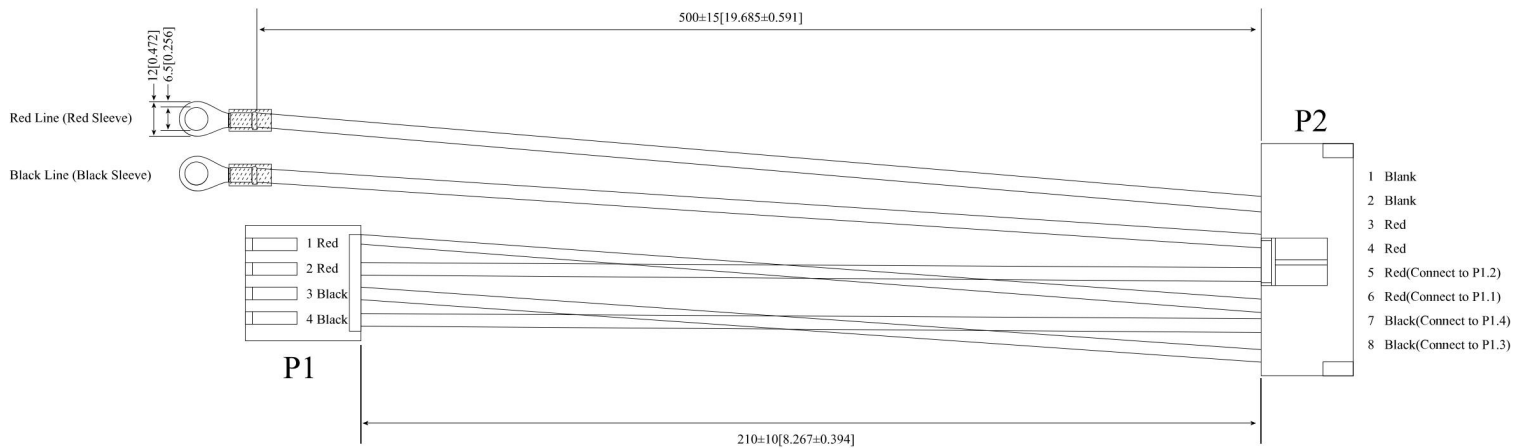
Pin Mode		
Position	Function	Customer Connection End
BLE	Bluetooth	Program

Rail base (optional)



TS35/7.5 OR TS35/15

### Connect wire specification (optional)



Pin	P2
1	
2	
3	Battery+
4	Battery-
5	+Vo
6	+Vo
7	0V
8	oV

NOTE:

Unit size: mm[inch]

Unmarked tolerances: ±0.5mm

### Notes:

1. If the product works under the minimum required load, it cannot guarantee that the performance of the product complies with all the performance indicators in this manual;
2. The maximum capacitive load is tested under the input voltage range and full load condition;
3. Unless otherwise stated, all indexes in this manual are measured at Ta=25°C, humidity <75%RH, nominal input voltage and rated output load;
4. All index testing methods in this manual are based on the enterprise standards of the company;
5. Our company can provide product customization, specific needs can directly contact our technical staff;
6. AMCHARD reserves the right to make changes to the product at any time without notice.

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