

TW60-12 Series single output power supply for battery charge (UPS)



Features:

- Universal AC input/Full range
- Small volume, low weight, high efficiency
- Protections: Short circuit / Overload
- Indicator for power on/charge/normal(LED)
- 100% full load burn-in test
- Battery protection at low voltage
- 2 Years warranty

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	Model TW60-12		0-12	
Output	DC voltage	CH1:13.8V	CH2:13.4V	
	Voltage tolerance	± 1%		
	Rated current	4.0A	0.35A	
	Current range	0 ~ 4A		
	Rated power	59.9W		
	Ripple & noise	100mVp-p		
	DC voltage ADJ. range	CH1:11.3 ~ 14.9V		
	Setup, rise, hold up time	800ms,50ms,80ms/230VAC.1600ms,50ms,16ms/115VAC.		
Input	Voltage range	90 ~ 264VAC or 127 ~ 370VDC		
	AC current	1.6A/115VAC 0.8A/230VAC		
	Efficiency	81%		
	Inrush current	cold-start current 25A/115VAC 45A/230VAC		
	leakage current	< 1mA/240VAC		
	over load	rated output power 110% ~ 150% start over load protection		
Protection		protection type: AC charging mode :hiccup mode, auto-recovery after fault condition is removed		
	battery protection	9.5 ~ 11V		
	at low voltage	protection mode :cutoff output		
Function	UPS introduction	long-term online floating charge to battery, high charging efficiency, battery can saturate to more than 90%		
		auto-stop charging when it's full, prevent over charging. Effectively extend battery life		
		AC/battery auto switch,no switch time,no need human guard		
		cold-start ,when there is no AC input ,can use battery start UPS,Meet the user's emergency needs		
Environment	Working temp, humidity	$-10^\circ C \sim +60^\circ C; 20\% \sim 90\% RH (Please refer to "derating curve")$		
	Storage temp, humidity	–20°C ~ +85°C;10% ~ 95%RH Non–condensing		
	Withstand vibration	10~500Hz, 2G 10min./1Cycle, Period for 60min, Each axes		
Safety	Withstand voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC		
	Isolation resistance	I/P-O/P: I/P-FG,O/P-FG: 100M Ohms/500VDC		
Fit standard	Safety standard	Compliance to UL60950-1		
	EMC Standard	Compliance to EN55022, CLASSA		
Others	Weight	0.52kg 129*96*38mm (L*W*H)		

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.

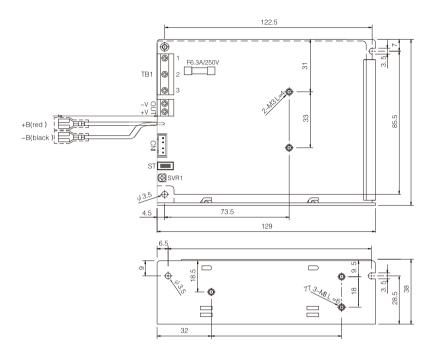
3. Tolerance : includes set up tolerance, line regulation and load regulation



Mechanical specification

Unit:mm

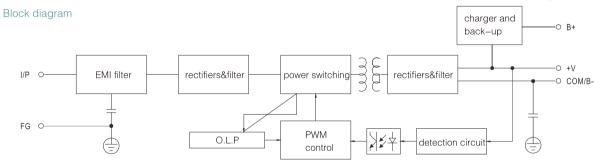
PIN assignment			
Pin No.	Assignment		
1	AC/L		
2	AC/N		
3	FG 🛓		



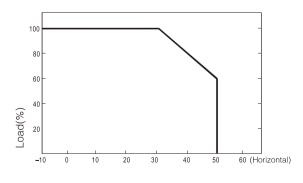
circumscribed indicator explain				
indicator color	explain			
green	DC OUTPUT indicator			
red	AC INPUT indicator			
white	battery charge indicator			

cold-start ,when there is no AC input ,can use battery start UPS,Meet the user's emergency needs



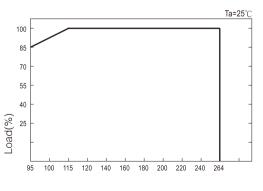


Derating curve



Ambient temperature(°C)

Static characteristic



Input voltage(V)50Hz