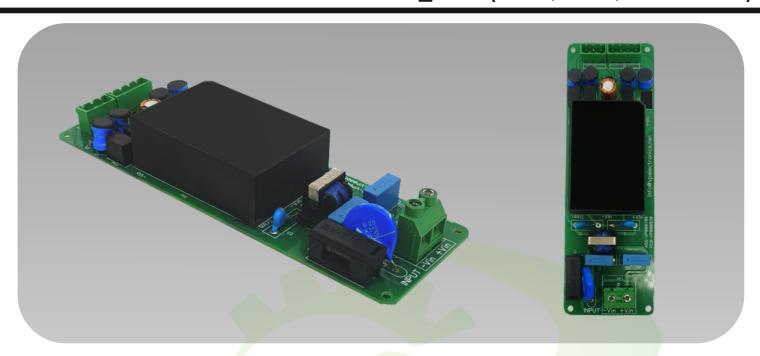


MUL_CH_POWER SUPPLY _30W (+15V,-15V ,+12V &+5V)



APPLICATIONS

- Inductions Heating
- Medical equipments
- UPS
- Inverter
- Solar Inverter
- Railways
- Battery charger

MUL_CH_POWER SUPPLY_30W (+15V,-15V ,+12V &+5V)

A compact size, high efficiency module power supply provided by Aipu. It has the advantages of universal input voltage both DC & AC available, low ripple, low temperature rise, low standby power consumption, high efficiency & reliability, safety isolated and good EMC performance. EMC conforms to EN55032, IEC/EN61000. It can be widely used for electric power, industrial, instrument and smart home applications. The additional circuit for EMC is recommended in this datasheet for the application with higher EMC requirement.

FEATURES

- Wide input voltage range 176-528VAC/248-745VDC
- No-load power consumption ≤0.55W
- Efficiency 82% Typ.
- Operating Temperature -40°C~105°C
- Switching frequency 65KHz
- Isolation voltage 4000Vac
- Altitude during operation 4000m Max
- Compliant with IEC/EN62368/UL62368
- Conform to CE & RoHS regulation
- Plastic case, flame class UL94 V-0
- PCB mounting
- Output Short Circuit, Over Current, Over Voltage Protections

OUTPUT SPECIFICATIONS

Item	Item Operating Condition		Тур.	Max.	Unit
Voltage Accuracy	Voltage Accuracy Full input voltage Range, Any load			±3.0	%
Line Regulation	Rated Load	±0.5		±0.5	%
Load Regulation	Rated input Voltage, 20%~100% load	-	-	±1.0	%
Minimum load	Single isolated output	0	-	-	%
	Input 230Vac	Input 230Vac - 2000 - Input 400Vac		-	mS
Turn-on Delay Time	Input 400Vac			-	
	Input 230VAC	-	35	-	mS
Power-off Hold up Time	Input 400VAC	-	100	-	
Dynamic	25%~50%~25%	Overshoot range ≤ ±10		%	
Response Over Voltage Protection	50% 75% 50% 15VDC Output	Re	Recovery time ≤ 5.0 ≤20		
Output Overshooting	Full insult valles a series	≤10%Vo			%
Short Circuit Protection	Full input voltage range	Continuous, Self-recovery			Hiccup
Drift Coefficient	-	-	±0.02%	-	%/ °C
Over Current Protection	Input 230VAC	≥120% lo, Self-recovery			Hiccup

	Output Specification			Max.	Ripple&	Efficiency
Part No	Power	Voltage	Current	Capacitive Load	Noise 20MHz (Max)	@Full Load 230Vac (Typical)
	(W)	(V)	(mA)	uF	m∨p-p	%
FA30-380S15H2N4	30	15	2000	5000	120	82

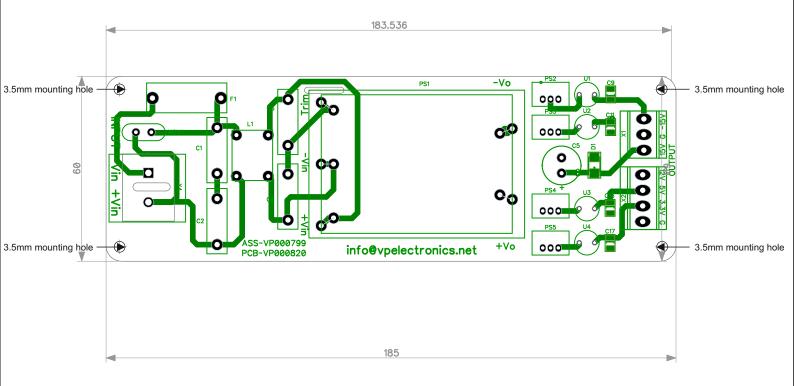
GENERAL SPECIFICATIONS

Item	Operating Condition	Min.	Тур.	Max.	Unit		
Switching Frequency	-	-	65	-	KHz		
Operating Temperature	Refer to the temperature derating curve	-40	-	+105	°C		
Storage Temperature	-	-40	-	+110			
Coldoring Tomporature	Wave-soldering	260±4℃, timing 5-10S					
Soldering Temperature	Manual-soldering	Manual-soldering 360±8℃, timing 4-7S					
Relative Humidity	-	10	-	90	%RH		
	I/P-O/P test 1min, leakage current≤5mA	4000	-	-	VAC		
Isolation Voltage	I/P-O/P @DC500V	100	-	-	МΩ		
Safety Standard	IEC/EN62368/UL62368						
Vibration	-	10-55Hz,10G, 30 Min, along X,Y,Z			Y,Z		
Safety Class	-	CLASS I					
Flame Class of Case -		UL94 V-0					
MTBF	MTBF MIL-HDBK-217F@25°C			>300,000H			
	Part No.	Weight (Typ.)					
Product Weight	VP000799	220 gm					

EMC PERFORMANCE

Total Item		Sub Item	Standard	Performance/Class	
		CE	CISPR22/EN55032	CLASS B	
	EMI	RE	CISPR22/EN55032	CLASS B	
		RS	IEC/EN61000-4-3	10V/m Perf.Criteria A	
		CS	IEC/EN61000-4-6	3Vr.m.s Perf.Criteria A	
		ESD	IEC/EN61000-4-2	Contact ±6KV / Air ±8KV Perf.Criteria B	
EMC		Surge	IEC/EN61000-4-5	Line to line ±2KV Perf.Criteria B	
	EMS			Line to line ±4KV Perf.Criteria B	
	LIVIS			(with the Recommended Circuit 2, 3&4)	
			IEC/EN61000-4-4	±2KV Perf.Criteria B	
		EFT		±4KV Perf.Criteria B (with the Recommended Circuit 2,	
				3&4)	
		Voltage dip, short interruption	IEC/EN61000-4-11	0%~70% Perf.Criteria B	
		and voltage variation	1212121000 1 11		

MODULE LAYOUT



MODULE SCHEMATIC

