

KEY FEATURES

- Switching Power Modules for PCB Mounting
- Fully Encapsulated Plastic Case
- Universal Input Range 90-264VAC, 47-440 Hz
- Regulated Output
- Low Ripple and Low Noise
- Isolation Class II
- -40°C Starting
- Small Size as ASC 30Watt and 40Watt Higher Wattage
- CE, CB and UL Approval
- 3-Year Product Warranty



ELECTRICAL SPECIFICATIONS

Model No. (Single Output)	VPJC-3.3S	VPJC-5S	VPJC-9S	VPJC-12S	VPJC-15S	VPJC-24S
Max output wattage (W)	26.4W	40W	40W	40W	40W	40W
Output	Voltage (V.DC.)	3.3V	5V	9V	12V	15V
	Current (mA) max	8000	8000	4444	3333	2666
	Voltage set accuracy	±3%	±2%	±2%	±2%	±2%
	Line regulation (typ.)	0.5%	0.5%	0.5%	0.5%	0.5%
	Load regulation (1-100%) (typ.)	1%	1%	1%	1%	1%
	Minimum load	1%	1%	1%	1%	1%
	Maximum Capacitive Load (at 230VAC)	60000 uF	40000 uF	7200 uF	8600 uF	1400 uF
	Efficiency (typ.)	74%	81%	82%	84%	83%

Model No. (Dual Output)	VPJC-5D		VPJC-12D		VPJC-15D	
Max output wattage (W)	40W		40W		40W	
Output		Output 1	Output 2	Output 1	Output 2	Output 1
	Voltage (V.DC.)	+5V	-5V	+12V	-12V	+15V
	Current (mA) max	4000	4000	1666	1666	1333
	Voltage set accuracy	±2%		±2%		±2%
	Line regulation (typ.)	0.5%		0.5%		0.5%
	Load regulation (10-100%) (typ.)	1% (symmetric load)		1% (symmetric load)		1% (symmetric load)
	Cross regulation (15-100%) (typ.)	±5%		±5%		±5%
	Minimum load	10%		10%		10%
	Maximum Capacitive Load (at 230VAC)	±12000 uF		±4400 uF		±1000 uF
	Efficiency (typ.)	81%		83%		83%

Model No. (Dual Output)	VPJC-5S12S		VPJC-5S24S	
Max output wattage (W)	40W		40W	
Output		Output 1	Output 2	Output 1
	Voltage (V.DC.)	5V	12V	5V
	Current (mA) max	5000	1250	5000
	Voltage set accuracy	±3%	±5%	±3%
	Line regulation (typ.)	0.5%	5%	0.5%
	Load regulation (25-100%) (typ.)	2% (symmetric load)	6% (symmetric load)	2% (symmetric load)
	Cross regulation(25-100%) (typ.)	±1%	±7%	±1%
	Minimum load	25%		25%
	Maximum Capacitive Load (at 230VAC)	10000 uF	470 uF	10000 uF
	Efficiency (typ.)	82%		82%

ELECTRICAL SPECIFICATIONS

Model No. (Triple Output)		VPJC-5S12D			VPJC-5S15D	
Max output wattage (W)		40W			40W	
Output		Output 2	Output 3	Output 1	Output 2	Output 3
	Voltage (V.DC.)	+12	-12	5	+15	-15
	Current (mA) max	600	600	5000	500	500
	Voltage set accuracy	±5%		±3%	±5%	
	Line regulation (typ.)	5%		0.5%	5%	
	Load regulation (25-100%) (typ.) (symmetric load)	7%		3%	7%	
	Cross regulation (typ.)	±10%		±3%	±10%	
	Minimum load	25%			25%	
	Maximum Capacitive Load	780 uF		10000 uF	900 uF	
	Efficiency (typ)	80%			81%	

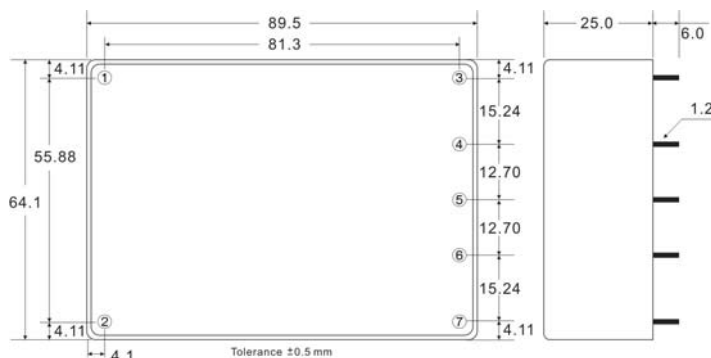
ELECTRICAL SPECIFICATIONS

Input	Voltage	90-264 VAC or 100-375 VDC
	Frequency (Hz)	47-440 Hz
	Current (Full load)	860 mA max. (115 VAC) / 460 mA max. (230 VAC)
	Inrush current (<2ms)	30 A max. (115 VAC) / 50 A max. (230 VAC)
	Leakage Current	0.75 mA max.
Output	Maximum capacitive load	470-23,000µF depending on model
	Ripple & Noise	3.3V : 50mV of Vout / others : 1% of Vout
	Hold-up time	10 ms min.
Protection	Over current protection	Above 105% rated output power
	Over voltage protection	Zener diode clamp
	Short circuit protection	Hiccup mode, indefinite (automatic recovery)
	OTP	100°C
Isolation	Input-Output (V.AC)	3000V
Environment	Operating temperature	-40°C...+70°C (Case Temperature max. +95°C)
	Storage temperature	-40°C...+85°C
	Temperature coefficient	0.01%/°C
	Humidity	95% RH
	MTBF	200,000 h~400,000 h @ 25°C
Physical	Dimensions (L x W x H)	3.52 x 2.52 x 0.98 Inches (89.5 x 64.1 x 25.0 mm) Tolerance ±0.5 mm
	Case Material	Plastic resin (flammability to UL 94V-0)
	Weight	280 g
	Cooling method	Free air convection
Safety & EMC	Agency Approvals	CE, UL/cUL, CB
	EMI (Conducted & Radiated Emission)	EN 55032 class B
	EMS (Noise Immunity)	EN 55024

NOTE

1. All specifications valid at normal input voltage, full load and +25°C after warm-up time unless otherwise stated.
2. Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.
3. It's recommended to add Varistor 14S471K at L / N input side in parallel.
4. It's necessary 10R / 15φ thermistor at L input side in series connection.

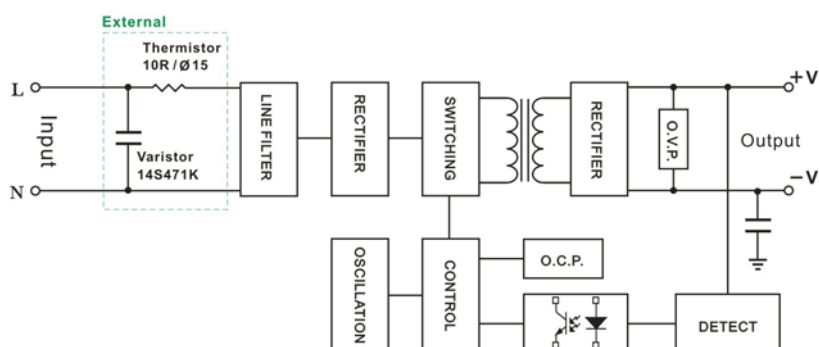
MECHANICAL DIMENSIONS (Top View)



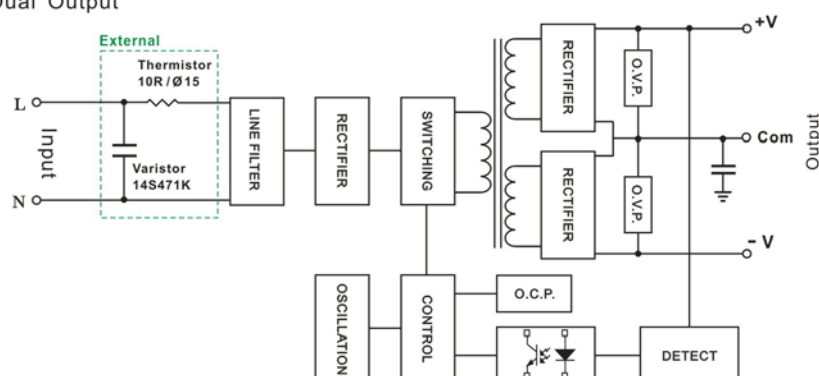
PIN#	Single	Dual	5S/12S	Triple
			5S/24S	
1	AC IN (L)	AC IN (L)	AC IN (L)	AC IN (L)
2	AC IN (N)	AC IN (N)	AC IN (N)	AC IN (N)
3	+DC OUT	+DC OUT	+OUT2	+DC OUT
4	NO PIN	NO PIN	+OUT1	+5V
5	-DC OUT	COMMON	+OUT2 RTN	COMMON
6	NO PIN	NO PIN	+OUT1 RTN	+5 RTN
7	NOCONNECT	-DC OUT	NO PIN	-DC OUT

BLOCK DIAGRAM

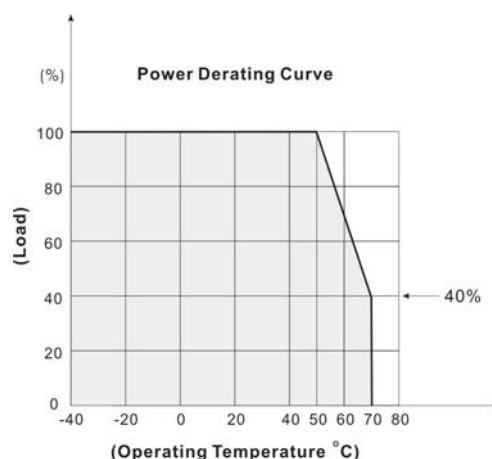
Single Output



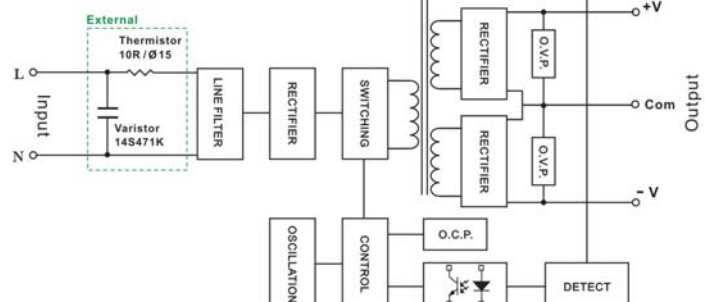
Dual Output



DERATING

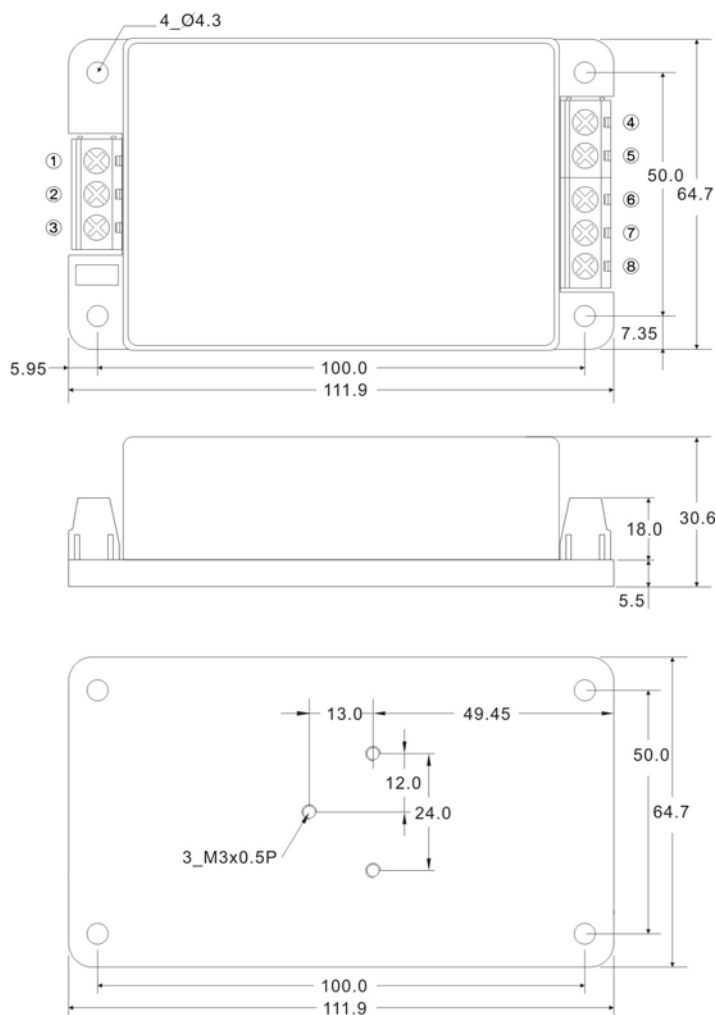


Triple Output



SCREW TERMINAL

VPJC-A2



PIN#	Single	Dual	5S/12S 5S/24S	Triple
1	NOCONNECT	NOCONNECT	NOCONNECT	NOCONNECT
2	AC IN (L)	AC IN (L)	AC IN (L)	AC IN (L)
3	AC IN (N)	AC IN (N)	AC IN (N)	AC IN (N)
4	+DC OUT	+DC OUT	+OUT2	+DC OUT
5	NOCONNECT	NOCONNECT	+OUT1	+5V OUT
6	-DC OUT	COMMON	+OUT2 RTN	COMMON
7	NOCONNECT	NOCONNECT	+OUT1 RTN	+5V RTN
8	NOCONNECT	-DC OUT	NOCONNECT	-DC OUT

We reserve the right to make alterations in the product materials and specifications without prior notification and consent to improve reliability, function or design or otherwise.