

PS-45 Series Specifications







Features:

- Universal AC input / full range
 Protections: Short Circuit / Overload / Over Voltage/ Over Temperature
- Cooling by free air convection
- DIN rail mountable
- UL508 approved
- LED indicator for power on
- Fix switching frequency at 100kHz
- 100% full load burn-in test
- 3 years warranty

OUTPUT

M	PΙ	IT	

PROTECTION

ENVIRONMENT

SAFETY & EMC

OTHERS

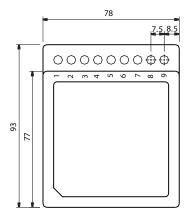
	Cat. No.	PS-4505	PS-4512	PS-4515	PS-4524		
	DC VOLTAGE	5V	12V	15V	24V		
	RATED CURRENT	5A	3.5A	2.8A	2A		
	CURRENT RANGE	0 ~ 5A	0 ~ 3.5A	0 ~ 2.8A	0 ~ 2A		
	RATED POWER	25W	42W	42W	48W		
	RIPPLE & NOISE (max)	100mVp-p	200mVp-p	240mVp-p	480mVp-p		
	_= ==	Ripple & noise are measi	ured at 20MHz of bandwidth by usi	ng a 12 twisted pair-wire terminate	ed with a 0.1µF & 47µF parallel capacit		
	VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V		
	VOLTAGE TOLERANCE	±2.0%	±1.0%	±1.0%	±1.0%		
		Tolerance: includes set u	p tolerance, line regulation and load	d regulation.	'		
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%		
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%		
	SETUP, RISE TIME	800ms, 60ms / 23	OVAC at full load	1	1		
	HOLD UP TIME (Typ.)	60ms / 230VAC at					
	VOLTAGE RANGE	85 ~ 264VAC	120 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz	120 ~ 370000				
		72%	77%	770/	80%		
	EFFICIENCY (Typ.)	11	1 11	77%	0070		
	AC CURRENT (max.)	1.5A / 115VAC	0.75A / 230VAC				
	INRUSH CURRENT (Typ.)		/ 115VAC; 56A / 230VAC				
	LEAKAGE CURRENT		≤1mA / 240VAC				
	OVERLOAD	105 ~ 160% rated					
		Protection type: Constant current limiting recovers automatically after fault condition is removed					
	OVER VOLTAGE	5.75 ~ 6.75V 13.8 ~ 16.2V 17.25 ~ 20.25V 27.6 ~ 32.4V					
		Protection type: Shut down o/p voltage, clamping by zener diode					
	OVER TEMPERATURE	Tj 135°C typically (Tj 135°C typically (U1) detect on heat sink of power transistor				
		Protection type: Shut dov	vn o/p voltage, re-power on to reco	over			
	WORKING TEMPERATURE	-10 ~ +50°C (Refe	-10 ~ +50°C (Refer to output load derating curve)				
	WORKING HUMIDITY	$20 \sim 90\%$ RH non-condensing $-20 \sim +85^{\circ}$ C, $10 \sim 95\%$ RH					
	STORAGE TEMP., HUMIDITY						
	TEMP. COEFFICIENT						
,			omponent: 10 ~ 500Hz, 2G 10min. / 1cycle, 60 min. each long X,Y, Z axes				
			,				
	SAFETY STANDARDS	UL508					
	JAI ETT STANDARDS		ınd				
	WITHSTAND VOLTAGE	EN60950-1 approved					
		I/P-O/P: 3KVAC					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M 0hms / 500VDC (25°C; 70% RH)					
	EMI CONDUCTION & RADIATION	Compliance to EN55011; EN55022 (CISPR22) Class B Compliance to EN61000-3-2,-3					
	HARMONIC CURRENT						
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204; EN55024; EN61000-6-2;					
		heavy industry level; criteria A					
		The power supply is considered a component which will installed into a final equipment.					
		The final equipment mus	t be re-confirmed that it still meets	EMC directives.			
	MTBF	364.6K hrs min.	MIL-HDBK-217K (25°C)				
	DIMENSION	93x78x67mm (LxWxH)					
	PACKING	0.31Kg; 48pcs / 16.1Kg / 1.3CUFT					

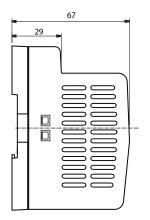
All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature



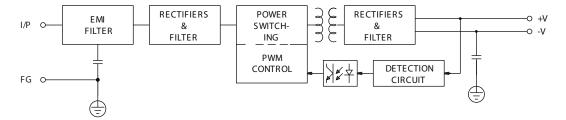
Mechanical Specification

Terminal Pin. No Assignment								
	Pin	Assignment	Pin	Assignment				
	1	AC/L	6,7	DC OUTPUT+V				
	2	AC/N	8	LED				
	3	FG ⊕	9	+V ADJ.				
	4,5	DC OUTPUT-V						

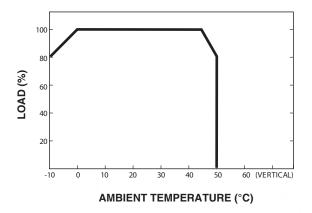




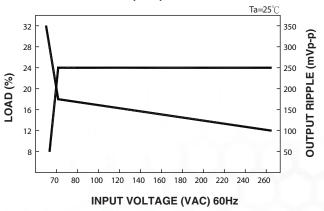
Block Diagram



Derating Curve



Static Characteristic (24V)



Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.