

PS-S100 Series

Specifications

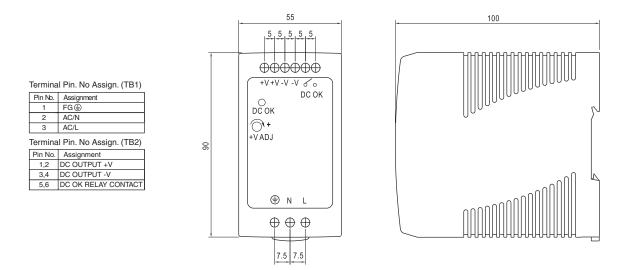


Features:

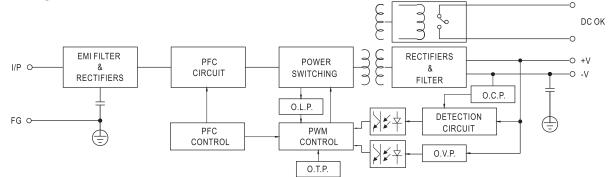
- Universal AC input / full range
- Protections: Short Circuit / Overload / Overvoltage / Over temperature
- $\mathsf{ZCS}/\mathsf{ZVS}$ technology to reduce power dissipation ٠
- Cooling by free air convection •
- DIN rail mountable
- DC OK relay contact
- ٠ No load power consumption < 1W
- LED indicator for power on ٠ •
- 100% full load burn-in test
- 3 year warranty

OUTPUT	Cat. No.	PS-S10012	PS-S10024	PS-S10048		
	DC VOLTAGE	12V	24V	48V		
	RATED CURRENT	7.5A	4A	2A		
	CURRENT RANGE	0 ~ 7.5A	0 ~ 4A	0~2A		
	RATED POWER	90W	96W	96W		
	-					
	RIPPLE & NOISE (max)	120mVp-p	150mVp-p	200mVp-p		
		the second se		e terminated with a 0.1µF & 47µF parallel capacito		
	VOLTAGE ADJ. RANGE	12 ~ 15V	24 ~ 30V	48 ~ 56V		
	VOLTAGE TOLERANCE	±1.0%	±1.0%	±1.0%		
		Tolerance: includes set up tolerance	, line regulation and load regulation.			
	LINE REGULATION	±1.0%	±1.0%	±1.0%		
	LOAD REGULATION	±1.0%	±1.0%	±1.0%		
	SETUP, RISE TIME	3000ms, 50ms/230VAC; 30	000ms, 50ms/115VAC at full loa	d		
		Length of set up time is measured a	at cold first start. Turning ON/OFF the powe	r supply may lead to increase of the set up time		
INPUT	HOLD UP TIME (Typ.)	50ms/230VAC; 20ms/115VAC at full load				
	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 37	OVDC			
		Derating maybe needed under low input voltages, please check the derating curve for more detail				
	FREQUENCY RANGE	47~63Hz				
	POWER FACTOR (Typ.)	$PF \ge 0.95/230VAC; PF \ge 0.95/230VAC$.98/115VAC at full load			
	EFFICIENCY (Typ.)	85%	86%	88%		
	AC CURRENT (max)	1.3A/115VAC; 0.8A/230VA	C '			
	INRUSH CURRENT (Typ.)	COLD START: 30A/115VAC;				
PROTECTION	LEAKAGE CURRENT	≤1mA/ 240VAC				
	OVERLOAD	105% ~ 150% rated output power				
			niting, recovers automatically after fault co			
	OVERVOLTAGE	15.6 ~ 18V	31.2 ~ 36V	57.6 ~ 64.8V		
	OVERTEMPERATURE	Protection type: Shut down overvoltage, re-power on to recover $90^{\circ}C \pm 10^{\circ}C$ (RTH2) detect on heat sink of power transistor				
		Protection type: Shut down overvoltage, re-power on to recover				
	SHORT CIRCUIT PROTECTION	Power supply shut down at 70°C constant current limiting / output voltage goes to 0; re-power on to recover				
	DC OK AKTIV SICNAL (mov.)		· 201//1 A registive			
ENVIRONMENT	DC OK AKTIV SIGNAL (max.)	Relay contact rating (max.)				
	WORKING TEMP.	-10 ~ +60°C (Refer to outp	out load derating curve)			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03% °C (0 ~ 50°C)				
	VIBRATION	Component: 10 ~ 500Hz, 2G 10min. / 1cycle, 60 min. each long X,Y, Z axes				
SAFETY & EMC	MOUNTING	Compliance to IEC60068-2	· · ·	3,,		
	SAFETY STANDARDS	UL508				
		EN60950-1 compliant				
		•				
	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC I/P-FG:1				
	ISOLATION RESISTANCE	I/P-0/P, I/P-FG, 0/P-FG: ≥1	00M Ohms/500VDC/25°C/70% R	Н		
		I/P-O/P, I/P-FG, O/P-FG: ≥1 Compliance to EN55011		Н		
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: ≥1 Compliance to EN55011 EN55022 (CISPR22)		Н		
	ISOLATION RESISTANCE EMI CONDUCTION & RADIATION	I/P-0/P, I/P-FG, 0/P-FG: ≥1 Compliance to EN55011 EN55022 (CISPR22) EN61204-3 Class B	00M Ohms/500VDC/25°C/70% R	Η		
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: ≥1 Compliance to EN55011 EN55022 (CISPR22)	00M Ohms/500VDC/25°C/70% R	Н		
	ISOLATION RESISTANCE EMI CONDUCTION & RADIATION	I/P-O/P, I/P-FG, O/P-FG: ≥1 Compliance to EN55011 EN55022 (CISPR22) EN61204-3 Class B Compliance to EN61000-3-	00M Ohms/500VDC/25°C/70% R -2,-3	H 0204; EN61000-6-2; EN61204-3;		
	ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT	I/P-O/P, I/P-FG, O/P-FG: ≥1 Compliance to EN55011 EN55022 (CISPR22) EN61204-3 Class B Compliance to EN61000-3-	00M Ohms/500VDC/25°C/70% R -2,-3 -2,3,4,5,6,8,11; EN55024; ENV5			
	ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT	I/P-O/P, I/P-FG, O/P-FG: ≥1 Compliance to EN55011 EN55022 (CISPR22) EN61204-3 Class B Compliance to EN61000-3 Compliance to EN61000-4 light industry level; criteria	00M Ohms/500VDC/25°C/70% R -2,-3 -2,3,4,5,6,8,11; EN55024; ENV5	0204; EN61000-6-2; EN61204-3;		
OTHERS	ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT	I/P-O/P, I/P-FG, O/P-FG: ≥1 Compliance to EN55011 EN55022 (CISPR22) EN61204-3 Class B Compliance to EN61000-3 Compliance to EN61000-4 light industry level; criteria	00M Ohms/500VDC/25°C/70% R -2,-3 -2,3,4,5,6,8,11; EN55024; ENV5 A omponent which will installed into a final e	0204; EN61000-6-2; EN61204-3;		
OTHERS	ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT	I/P-O/P, I/P-FG, O/P-FG: ≥1 Compliance to EN55011 EN55022 (CISPR22) EN61204-3 Class B Compliance to EN61000-3 Compliance to EN61000-4 light industry level; criteria The power supply is considered a c re-confirmed that it still meets EMC 346K hrs min. MIL-HDBK	00M Ohms/500VDC/25°C/70% R -2,-3 -2,3,4,5,6,8,11; EN55024; ENV5 A omponent which will installed into a final e directives.	0204; EN61000-6-2; EN61204-3;		
OTHERS	ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT EMS IMMUNITY	I/P-O/P, I/P-FG, O/P-FG: ≥1 Compliance to EN55011 EN55022 (CISPR22) EN61204-3 Class B Compliance to EN61000-3 Compliance to EN61000-4 light industry level; criteria The power supply is considered a c re-confirmed that it still meets EMC	00M Ohms/500VDC/25°C/70% R -2,-3 -2,3,4,5,6,8,11; EN55024; ENV5 A omponent which will installed into a final e directives.	0204; EN61000-6-2; EN61204-3;		
OTHERS	ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT EMS IMMUNITY MTBF	I/P-O/P, I/P-FG, O/P-FG: ≥1 Compliance to EN55011 EN55022 (CISPR22) EN61204-3 Class B Compliance to EN61000-3 Compliance to EN61000-4 light industry level; criteria The power supply is considered a c re-confirmed that it still meets EMC 346K hrs min. MIL-HDBK	00M Ohms/500VDC/25°C/70% R -2,-3 -2,3,4,5,6,8,11; EN55024; ENV5 A omponent which will installed into a final e directives. (-217K (25°C)	0204; EN61000-6-2; EN61204-3;		

Mechanical Specification



Block Diagram



DC OK Relay Contact

Contact Close	When the output voltage reaches the adjusted output voltage.
Contact Open	When the output voltage drop below 90% output voltage.
Contact Ratings (max.)	30V/1A resistive load

Derating Curve Output Derating VS Input Voltage 100 100 90 80 80 LOAD (%) LOAD (%) 60 70 60 40 50 20 40 50 70 (VERTICAL) -10 20 30 40 10 0 60 85 95 100 115 120 140 160 180 200 220 240 264 AMBIENT TEMPERATURE (°C) **INPUT VOLTAGE (VAC) 60Hz**

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

Ta=25℃

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