

# PS-S100 Series **Specifications**









#### Features:

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

### **OUTPUT**

**INPUT** 

**PROTECTION** 

ENVIRONMENT

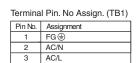
**SAFETY & EMC** 

**OTHERS** 

	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
		Ripple & noise are measured at 20MHz of bandw		
	VOLTAGE ADJ. RANGE	12 ~ 15V	24 ~ 30V	48 ~ 56V
	VOLTAGE TOLERANCE	±1.0%	±1.0%	±1.0%
		Tolerance: includes set up tolerance, line regul	lation 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; 3000ms,	50ms/115VAC at full load	
	,	Length of set up time is measured at cold first		may lead to increase of the set up time.
	HOLD UP TIME (Typ.)	50ms/230VAC; 20ms/115VAC at fu		,
	THOUSE OF THIS (Typ.)	20110/200110/110110 4:10		
	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC		
		Deating maybe needed under low input voltag	es, please check the derating curve for n	nore detail
	FREQUENCY RANGE	47~63Hz	3	
	POWER FACTOR (Typ.)	$PF \ge 0.95/230VAC$ ; $PF \ge 0.98/115$	VAC at full load	
	EFFICIENCY (Typ.)	85%	86%	88%
	AC CURRENT (max)	1.3A/115VAC; 0.8A/230VAC	0070	0070
	INRUSH CURRENT (Typ.)	COLD START: 30A/115VAC; 60A/23	OVAC	
	LEAKAGE CURRENT	<1mA/ 240VAC	OUVAC	
	LEARAGE CUNNEINT			
	OVERLOAD	105% ~ 150% rated output power	•	
		Protection type: Constant current limiting, reco	overs automatically after fault condition is	s removed
	OVERVOLTAGE	15.6 ~ 18V	31.2 ~ 36V	57.6 ~ 64.8V
		Protection type: Shut down overvoltage, re-por	wer on to recover	1
	OVERTEMPERATURE	$90\% \pm 10\%$ (RTH2) detect on heat		
		Protection type: Shut down overvoltage, re-por	•	
	SHORT CUIRCUIT PROTECTION	Power supply shut down at 70°C co		it voltage goes to 0:
		re-power on to recover	onotant our one mining / outpu	it rollings good to o,
	DC OK AKTIV SIGNAL (max.)	Relay contact rating (max.): 30V/1A	A resistive	
	, ,	, , , , , , , , , , , , , , , , , , ,		
	WORKING TEMP.	$-10 \sim +60$ °C (Refer to output load	derating curve)	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.03% ℃ (0 ~ 50℃)		
	VIBRATION	Component: 10 ~ 500Hz, 2G 10mi	n. / 1cycle, 60 min. each long 🕽	X,Y, Z axes
	MOUNTING	Compliance to IEC60068-2-6		
	SAFETY STANDARDS	UL508		
	O'll El l'O'll MD/IIIDO	EN60950-1 compliant		
	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC I/P-FG:1.5KVAC	O/P-FG:0.5KVAC	
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: ≥100M Oh		
	EMI CONDUCTION & RADIATION	Compliance to EN55011	1115/300VDG/23 G/70 /6 HT	
	EIVII CUNDUCTION & RADIATION	•		
		EN55022 (CISPR22)		
	LIADAGONIO GUDDENT	EN61204-3 Class B		
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3	· · · <b>-</b> · · · - · · · · · · · · · · · · · · ·	
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5	,6,8,11; EN55024; ENV50204;	EN61000-6-2; EN61204-3;
		light industry level; criteria A		
		The power supply is considered a component		t. The final equipment must be
ı		re-confirmed that is still meets EMC directives	S	
	MTBF	346K hrs min. MIL-HDBK-217K (	(25°C)	
	DIMENSION	55x90x100mm (WxHxD)	-	
	PACKING	0.42Kg; 30pcs / 13.6Kg / 0.82CUF	Т	
		All parameters NOT specially mentioned are m		d 25℃ of ambient temperature.
		,		

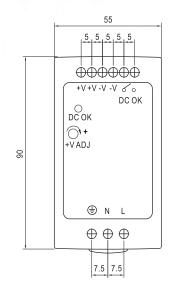
# Altech Corp.

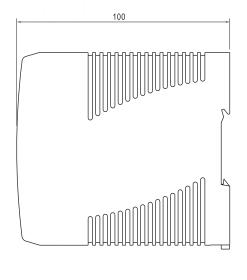
# **Mechanical Specification**



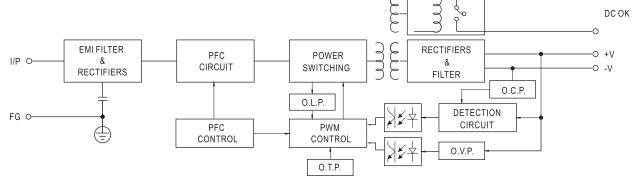
Terminal Pin. No Assign. (TB2)

101111111a1 1 1111110 7 10019111 (1 DZ)				
	Pin No.	Assignment		
	1,2	DC OUTPUT +V		
		DC OUTPUT -V		
	5,6	DC OK RELAY CONTACT		





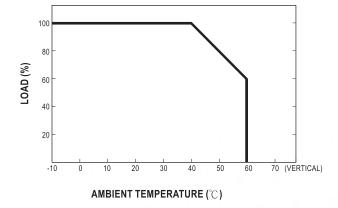
#### **Block Diagram**



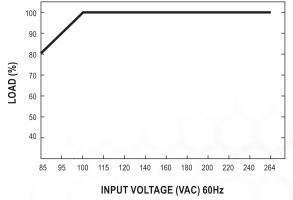
### **DC OK Relay Contact**

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**



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

Ta=25°€