Altech Corp.®

480W Single Phase Industrial DIN Rail Power Supply

PSP-480 Series

■ Features :

- Built-in passive PFC function compliance to EN61000-3-2(For DRP-480)
- High efficiency 89% and low dissipation
- Protections: Short circuit/Over load/Over voltage/Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508(industrial control equipment)approved
- EN61000-6-2(EN50082-2) industrial immunity level
- 100% full load burn-in test
- 3 years warranty

SPECIFICATION

MODEL		PSP-48024		PSP-48048	
OUTPUT	DC VOLTAGE	24V		48V	
	RATED CURRENT	20A		10A	
	CURRENT RANGE	0 ~ 20A		0 ~ 10A	
	RATED POWER	480W		480W	
	RIPPLE & NOISE (max.) Note.2	120mVp-p		120mVp-p	
	VOLTAGE ADJ. RANGE	24 ~ 28V		48 ~ 53V	
	VOLTAGE TOLERANCE Note.3	±1.0%		±1.0%	
	LINE REGULATION	±0.5%		±0.5%	
	LOAD REGULATION	+1.0%		±1.0%	
	SETUP, RISE, HOLD TIME	1200ms, 40ms, 16ms/230VAC at full load			
INPUT	VOLTAGE RANGE	180 ~ 264VAC 250 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR	≧0.7 (for DRP-480)			
	EFFICIENCY (Typ.)	89%			
	AC CURRENT	4A/230V AC		4A/230VAC	
	INRUSH CURRENT (max.)	COLD START 40A/230V AC			
	LEAKAGE CURRENT	<3.5mA / 240VAC			
PROTECTION	OVER LOAD	105 ~ 150% rated output power			
		Protection type : Constant current limiting, recovers automatically after fault condition is removed			
	OVER VOLTAGE	30 ~ 36V	54 ~60V	30 ~ 36V	54 ~60V
		Protection type : Shut down o/p voltage, re-power on to recover			
	OVER TEMPERATURE	100℃±5℃ (TSW : Detect on heatsink of power switch)			
		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down			
ENVIRONMENT	WORKING TEMP.	-20 ~ +70℃ (Refer to output load derating curve)			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)			
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes			
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL508, EN60950 Approved, UL60950-1			
	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 Ohms/500VDC			
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B			
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3(For DRP-480)			
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11,ENV50204, EN61000-6-2 (EN50082-2) Heavy industry level, criteria A			
OTHERS	MTBF	180.9Khrs min. MIL-HDBK-217F (25℃)			
	DIMENSION	227*125.2*100mm (W*H*D)			
	PACKING	2.4Kg; 6pcs/15Kg/1.75CUFT			

NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
3. Tolerance : includes set up tolerance, line regulation and load regulation.
4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

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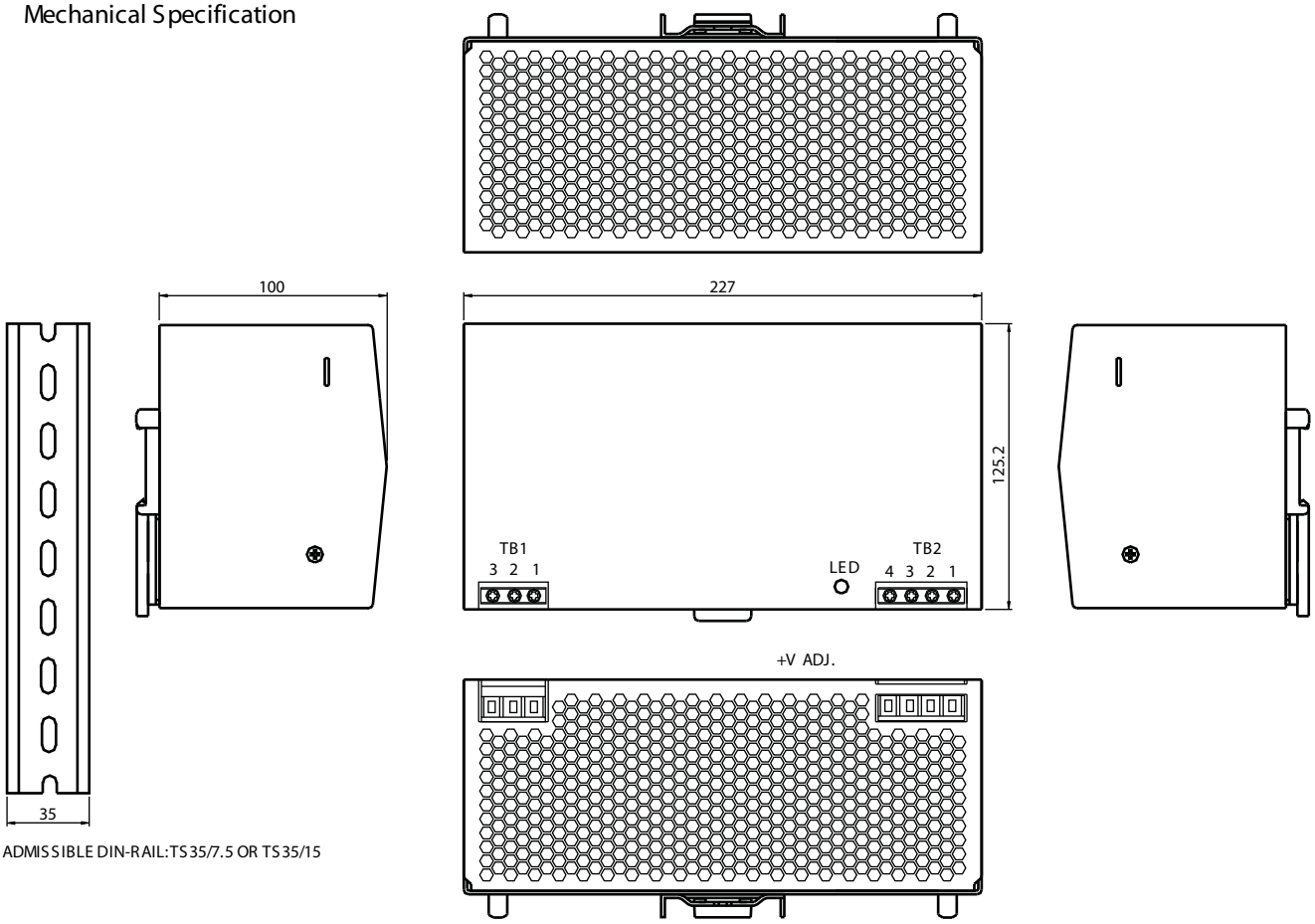
Mechanical Specification



ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15

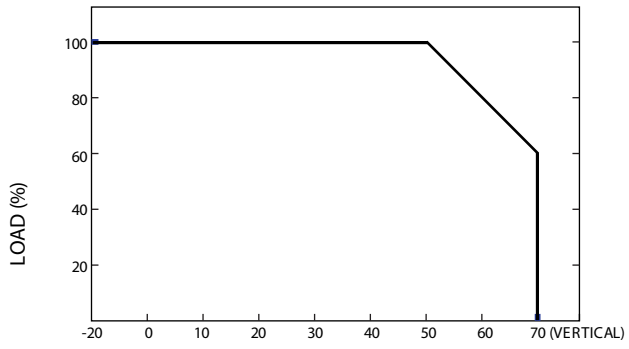
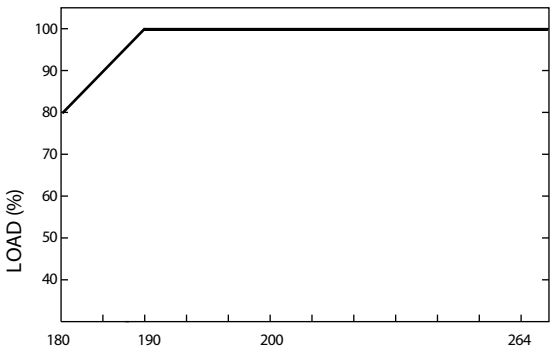
TB1 Terminal Pin. No Assignment

Pin No.	Assignment
1	AC/L
2	AC/N
3	FG ⏚

TB2 Terminal Pin. No Assignment

Pin No.	Assignment
1,2	DC OUTPUT +V
3,4	DC OUTPUT -V

Derating Curve



Output Derating VS Input Voltage