MEAN WELL

12~27W AC-DC Single Output Desktop

P30A series

Features :

- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Full output 3~48V safety approval
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Fully enclosed plastic case
- Fix switching frequency and regulation
- Topology: Top switch circuit
- LED indicator for power on
- Approvals: UL / CUL / TUV / CB / CE
- 2 years warranty

SPECIFICATION

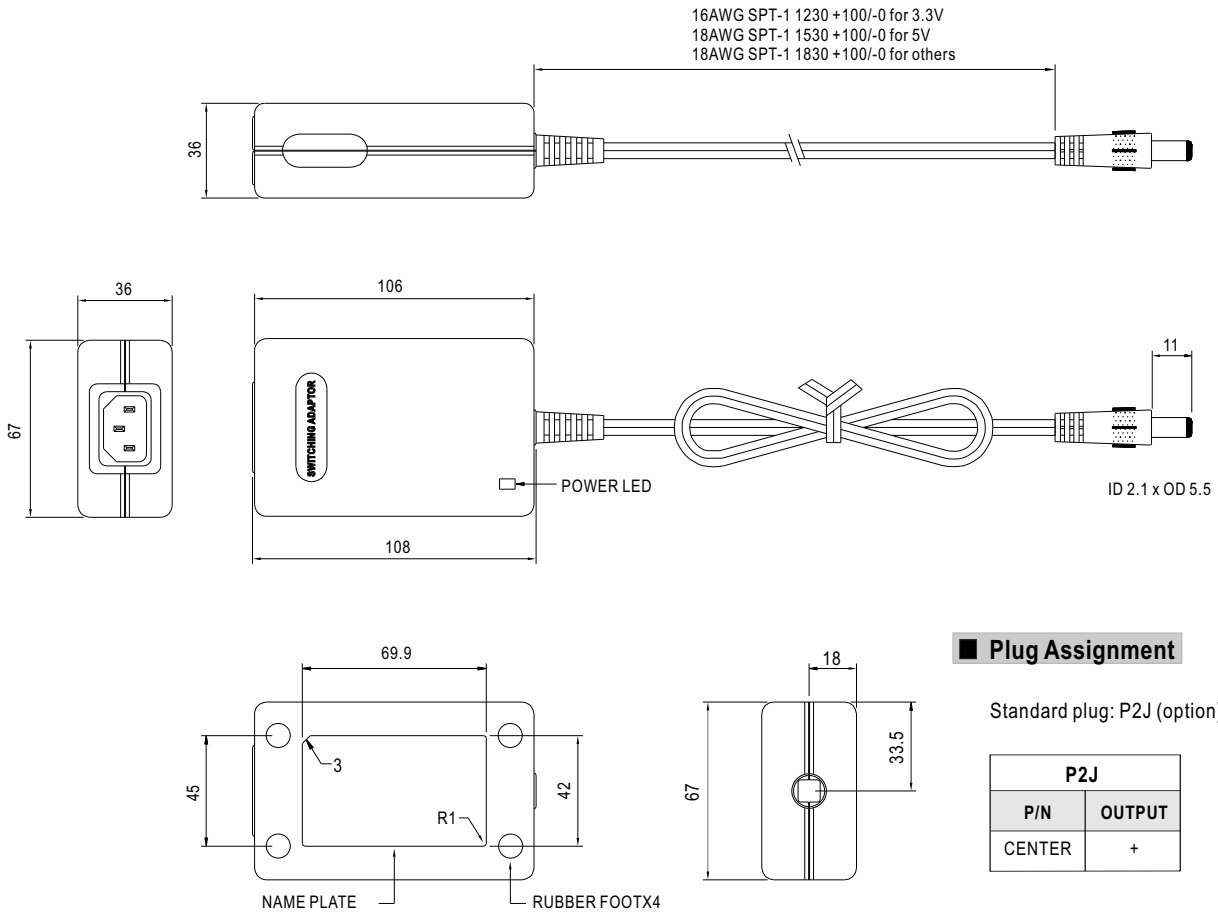
ORDER NO.		P30A-0P2J	P30A-1P2J	P30A-1-1P2J	P30A-2P2J	P30A-3P2J	P30A-4P2J	P30A-5P2J	P30A-6P2J	P30A-8P2J
OUTPUT	SAFETY MODEL NO.	PSU30A-0	PSU30A-1	PSU30A-1-1	PSU30A-2	PSU30A-3	PSU30A-4	PSU30A-5	PSU30A-6	PSU30A-8
	DC VOLTAGE Note.2	3.3V	5V	7.5V	9V	12V	15V	18V	24V	48V
	RATED CURRENT	3.63A	4A	3.06A	2.89A	2.25A	1.80A	1.50A	1.12A	0.56A
	CURRENT RANGE	0 ~ 3.63A	0 ~ 4A	0 ~ 3.06A	0 ~2.89A	0 ~ 2.25A	0 ~ 1.80A	0 ~ 1.50A	0 ~ 1.12A	0 ~ 0.56A
	RATED POWER	12W	20W	23W	26W	27W	27W	27W	27W	27W
	RIPPLE & NOISE (max.) Note.3	50mVp-p	50mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p	100mVp-p	150mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	3 ~ 5V	5 ~ 6V	6 ~ 8V	8 ~ 11V	11 ~ 13V	13 ~ 16V	16 ~ 21V	21 ~ 27V	33 ~ 48V
		Fixed output by internal VR								
	VOLTAGE TOLERANCE Note.4	±7.0%	±5.0%	±4.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%
	LINE REGULATION Note.5	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION Note.6	±6.0%	±4.0%	±3.0%	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%
	SETUP, RISE, HOLD UP TIME	200ms, 50ms, 16ms at full load								
INPUT	VOLTAGE RANGE	90 ~ 264VAC 135 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	EFFICIENCY (Typ.)	62%	68%	72%	74%	75%	78%	78%	80%	82%
	AC CURRENT	0.8A / 100VAC								
	INRUSH CURRENT (max.)	60A / 230VAC								
	LEAKAGE CURRENT (max.)	0.75mA / 240VAC								
PROTECTION	OVERLOAD	150 ~ 450% rated output power								
		Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	OVER VOLTAGE	110 ~ 140% rated output voltage								
		Protection type : Shut down o/p voltage, re-power on to recover								
	OVER TEMPERATURE	IC1Tj135℃								
		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down								
ENVIRONMENT	WORKING TEMP.	0 ~ +50℃ (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, period for 60min. each along X, Y, Z axes								
SAFETY & EMC (Note. 7)	SAFETY STANDARDS	UL1950, CSA22.2, EN60950-1 approved								
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC , I/P-FG:1.5KVAC								
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25℃/ 70% RH								
	EMI CONDUCTION & RADIATION	Compliance to EN55022(CISPR22) class B								
	HARMONIC CURRENT	Compliance to EN61000-3-2,3								
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,11, ENV50204, light industry level, criteria A								
OTHERS	MTBF	500khrs min. MIL-HDBK-217F (25℃)								
	DIMENSION	108*67*36mm (L*W*H)								
	PACKING	0.3kg ; 54pcs/ 20kg / CARTON								
CONNECTOR	PLUG	Standard type P2J: 2.1ϕ * 5.5ϕ * 11mm, center positive for stock ; Other type available by customer requested								
	CABLE	Standard type see page2 ; Other type available by customer requested								

NOTE

1.All parameters are specified at 230VAC input, rated load, 25℃ 70% RH ambient.
2.DC voltage: The output voltage set at point measure by plug terminal & 50% load.
3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
4.Tolerence: includes set up tolerance, line regulation, load regulation.
5.Line regulation is measured from low line to high line at rated load.
6.Load regulation is measured from 0% to 100% rated load.
7.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.

■ Mechanical Specification

Unit:mm

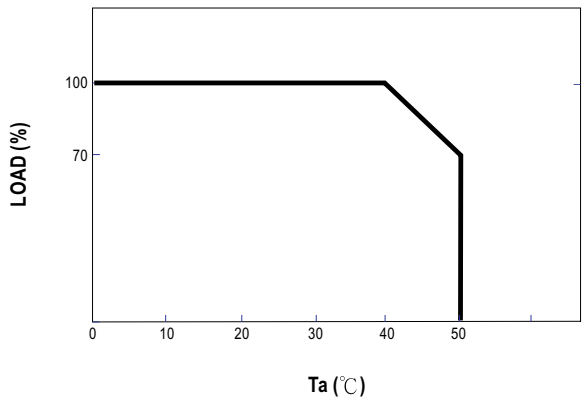


■ Plug Assignment

Standard plug: P2J (option)

P2J	
P/N	OUTPUT
CENTER	+

■ Derating Curve



■ Static Characteristics