



12~27W AC-DC Single Output Desktop

P30B series



■ Features :

- 2 pole AC inlet IEC320-C8
- Class II power (without 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
- 1 year warranty

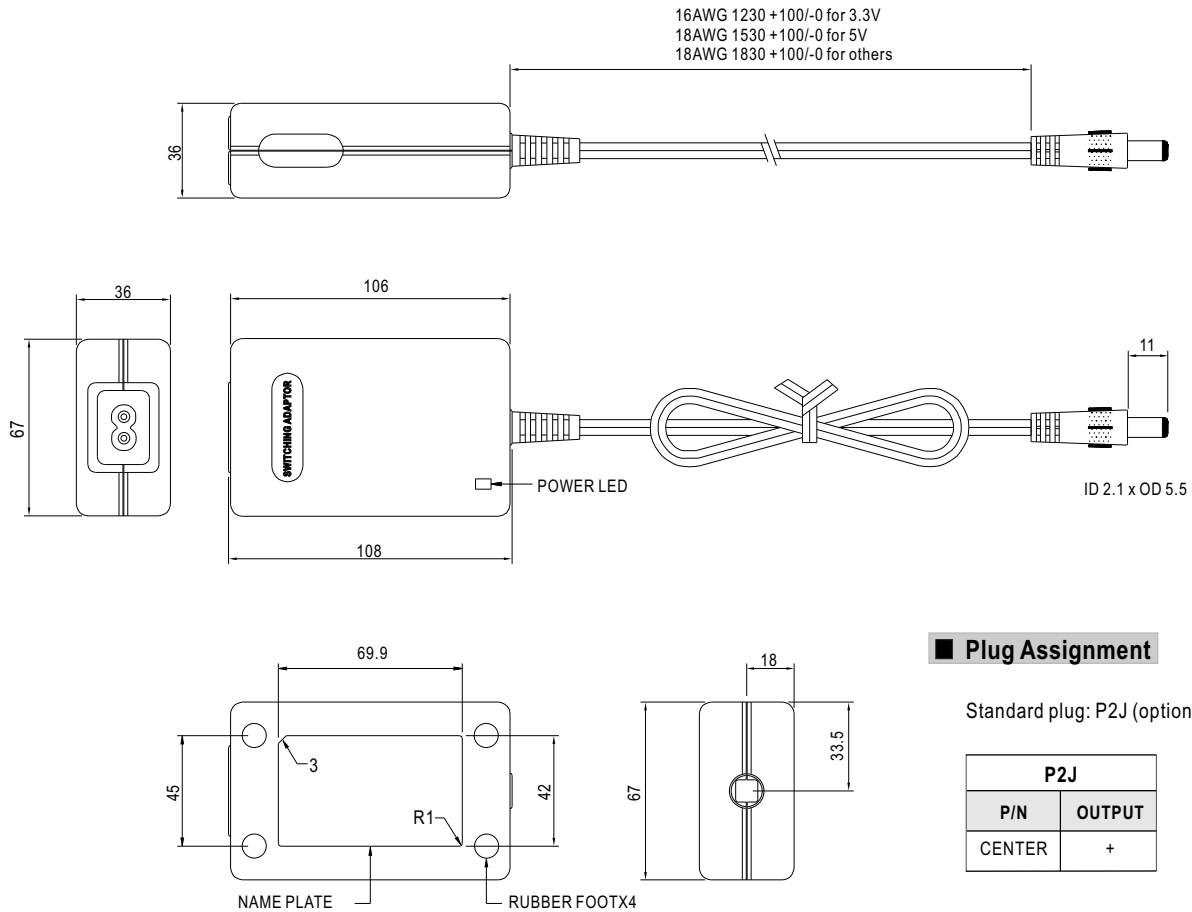


SPECIFICATION

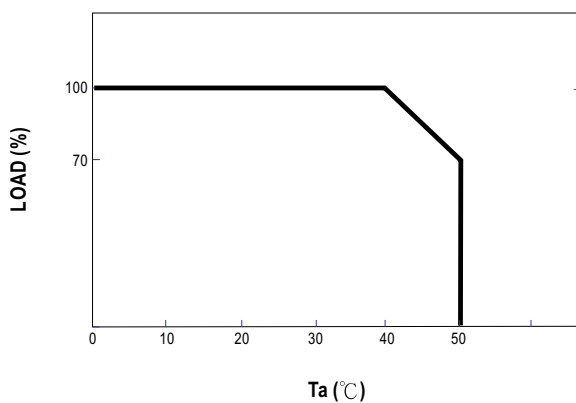
ORDER NO.		P30B-0P2J	P30B-1P2J	P30B-1-1P2J	P30B-2P2J	P30B-3P2J	P30B-4P2J	P30B-5P2J	P30B-6P2J	P30B-8P2J
OUTPUT	SAFETY MODEL NO.	PSU30B-0	PSU30B-1	PSU30B-1-1	PSU30B-2	PSU30B-3	PSU30B-4	PSU30B-5	PSU30B-6	PSU30B-8
	DC VOLTAGE <small>Note.2</small>	3.3V	5V	7.5V	9V	12V	15V	18V	24V	48V
	RATED CURRENT	3.63A	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.) <small>Note.3</small>	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 <small>Note.4</small>	±7.0%	±5.0%	±4.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%
	LINE REGULATION <small>Note.5</small>	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
INPUT	LOAD REGULATION <small>Note.6</small>	±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								
	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								
PROTECTION	INRUSH CURRENT (max.)	COLD START < 60A peak / 230VAC								
	LEAKAGE CURRENT (max.)	0.25mA / 240VAC								
	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								
ENVIRONMENT	OVER TEMPERATURE	IC1 Tj 135℃ Protection type : Shut down o/p voltage, recovers automatically after temperature goes down								
	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% / °C (0 ~ 50℃)								
SAFETY & EMC (Note. 7)	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
	SAFETY STANDARDS	UL1950, CSA22.2, EN60950-1 Approved								
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC								
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃ / 70% RH								
	EMI CONDUCTION & RADIATION	Compliance to EN55022(CISPR22) class B								
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3								
OTHERS	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,11, ENV50204, Light industry level, criteria A								
	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.Tolerance: 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



Derating Curve



Static Characteristics

