MEAN WELL

15~40W AC-DC Single Output Desktop

P40A 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

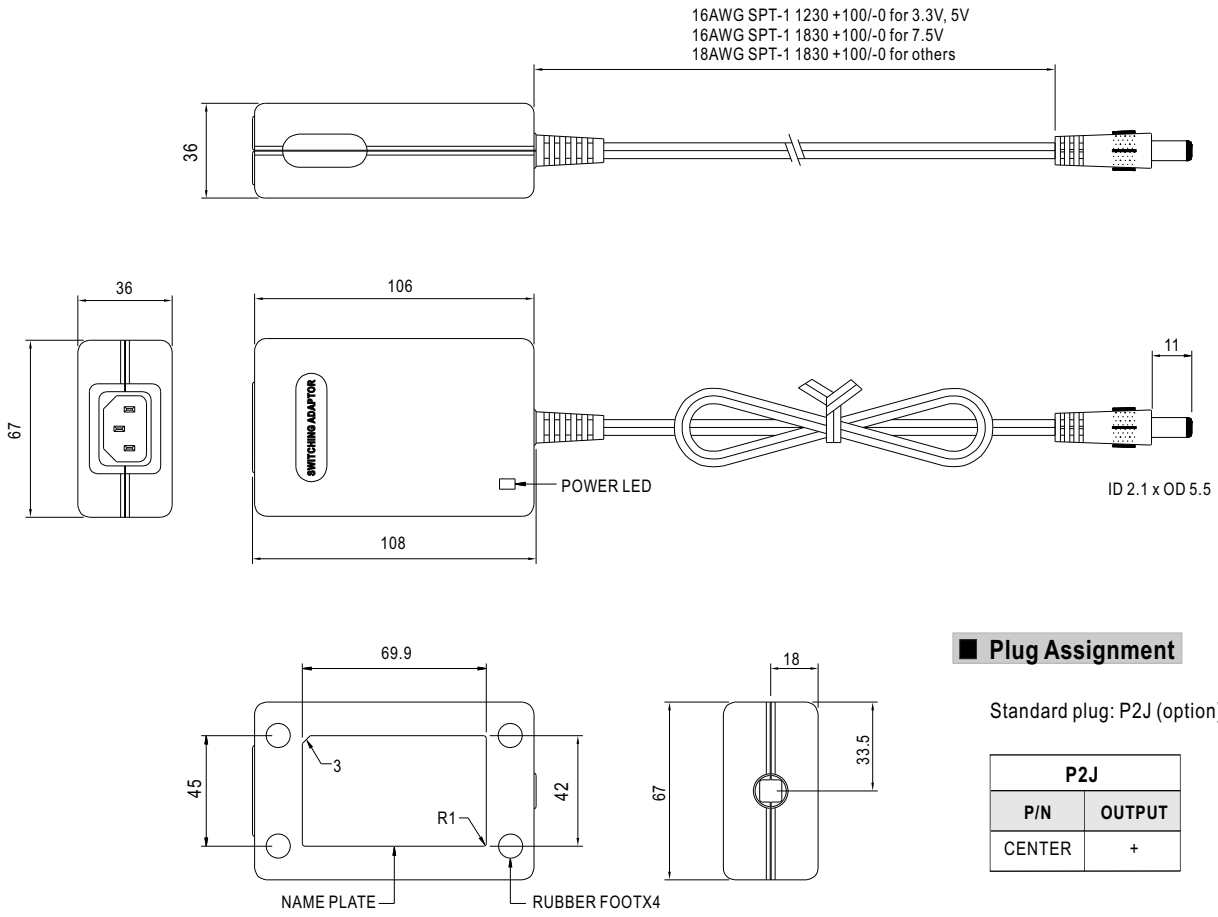
ORDER NO.		P40A-0P2J	P40A-1P2J	P40A-1-1P2J	P40A-2P2J	P40A-3P2J	P40A-4P2J	P40A-5P2J	P40A-6P2J	P40A-7P2J	P40A-8P2J
OUTPUT	SAFETY MODEL NO.	PSU40A-0	PSU40A-1	PSU40A-1-1	PSU40A-2	PSU40A-3	PSU40A-4	PSU40A-5	PSU40A-6	PSU40A-7	PSU40A-8
	DC VOLTAGE Note.2	3.3V	5V	7.5V	9V	12V	15V	18V	24V	28V	48V
	RATED CURRENT	4.54A	5A	4A	3.88A	3.33A	2.66A	2.22A	1.66A	1.42A	0.83A
	CURRENT RANGE	0 ~ 4.54A	0 ~ 5A	0 ~ 4A	0 ~3.88A	0 ~ 3.33A	0 ~ 2.66A	0 ~ 2.22A	0 ~ 1.66A	0 ~ 1.42A	0 ~ 0.83A
	RATED POWER	15W	25W	30W	35W	40W	40W	40W	40W	40W	40W
	RIPPLE & NOISE (max.) Note.3	50mVp-p	50mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p	100mVp-p	150mVp-p	150mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	3~5V	5~6V	6~8V	8~11V	11~13V	13~16V	16~21V	21~27V	27~33V	33~48V
		Fixed output by internal VR									
	VOLTAGE TOLERANCE Note.4	±10%	±6.0%	±5.0%	±5.0%	±4.0%	±3.0%	±3.0%	±3.0%	±3.0%	±2.0%
	LINE REGULATION Note.5	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION Note.6	±8.0%	±5.0%	±5.0%	±4.0%	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%	±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.)	65%	70%	72%	74%	75%	78%	78%	80%	80%	82%
	AC CURRENT	1A / 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 ~ +40℃ (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

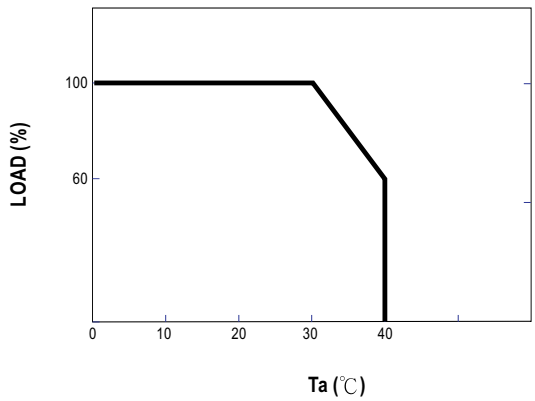


■ Plug Assignment

Standard plug: P2J (option)

P2J	
P/N	OUTPUT
CENTER	+

■ Derating Curve



■ Static Characteristics

