

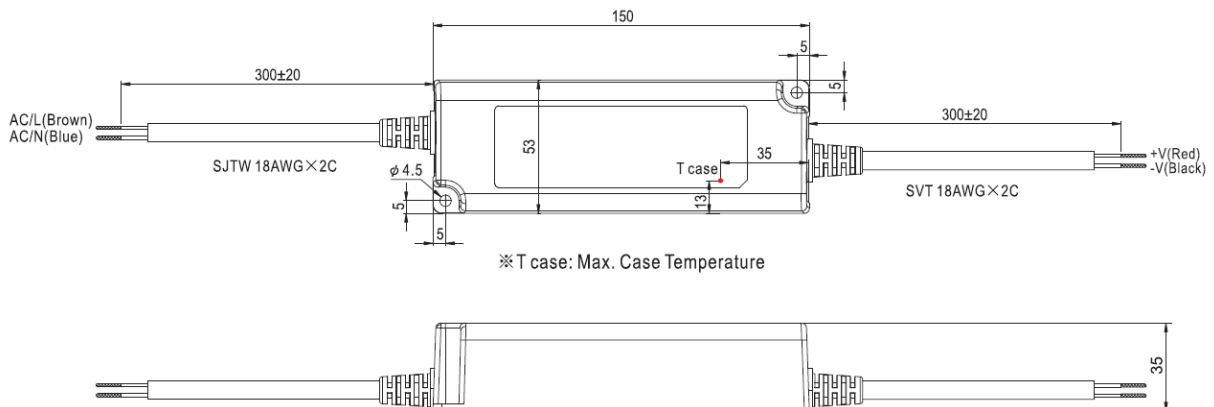
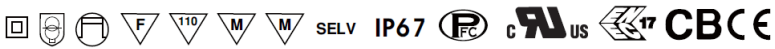
40W Single Output Switching Power Supply

NPF-40 series



Features

- Universal AC input / Full range (up to 305V AC)
- Built-in active PFC function
- High efficiency up to 90%
- Protections: Short circuit / Over current / Over voltage/ Over temperature
- Cooling by free air convection
- Fully isolated plastic case
- Fully encapsulated with IP67 level
- Class II power unit, no FG
- Class 2 power unit
- Suitable for dry/ damp/ wet locations
- No load power consumption <0.15W
- 5 years warranty



OUTPUT	SETUP, RISE TIME Note.4	500ms, 80ms at 95% load 115VAC / 230VAC
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load
INPUT	VOLTAGE RANGE	90 ~ 305VAC 127 ~ 431VDC
	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR (Typ.)	PF>0.97/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve)
	TOTAL HARMONIC DISTORTION	THD< 20% when output loading \geq 60% at 115VAC/230VAC input and output loading \geq 75% at 277VAC input
	AC CURRENT (Typ.)	0.6A / 115VAC 0.3A / 230VAC 0.25A / 277VAC
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=270 μ s measured at 50% Ipeak) at 230VAC
	LEAKAGE CURRENT	<0.25mA / 277VAC
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed
	OVER CURRENT	95 ~ 108%
		Protection type : Constant current limiting, recovers automatically after fault condition is removed
	OVER VOLTAGE	Protection type : shut down o/p voltage, re-power on to recover
OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover	
ENVIRONMENT	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")
	WORKING HUMIDITY	20 ~ 95% RH non-condensing
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH
	TEMP. COEFFICIENT	\pm 0.03%/°C (0 ~ 50°C)
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes
SAFETY & EMC	SAFETY STANDARDS	UL8750, CSA C22.2 No. 250.13-12, ENEC EN61347-1, EN61347-2-13, EN62384 independent, IP67 approved; Design refer to EN60335-1
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (\geq 60% load) ; EN61000-3-3
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level(surge 2KV), criteria A
OTHERS	MTBF	368K hrs min. MIL-HDBK-217F (25°C)
	DIMENSION	150*53*35mm (L*W*H)
	PACKING	0.49Kg;30pcs/15.7Kg/1.0CUFT
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C 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. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.	