

### 20~25W AC-DC Single Output Wall-mounted type

## ES25U series



Features :

- Universal AC input / Full range
- 2 pole USA plug
- Class ∏ power (without earth pin)
- Full output 5~48V safety approval
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- PWM 3842 control circuit and regulated
- LED indicator for power on
- Approvals: UL / CUL / BSMI / CB / FCC
- 1 year warranty

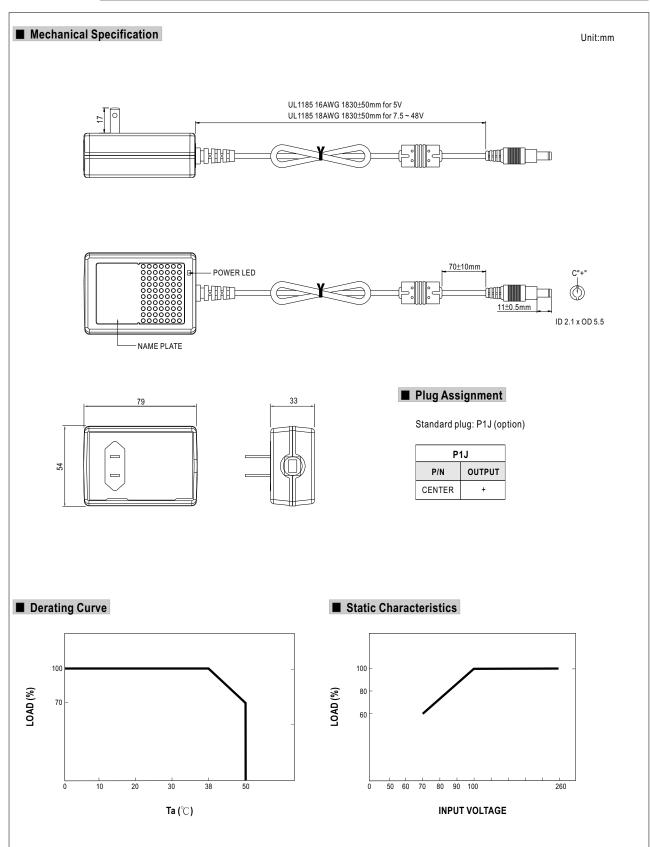
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#### SPECIFICATION

PECIFICATION ORDER NO.		ES25U05-P1J	ES25U07-P1J	ES25U09-P1J	E\$251112_P11	E\$251115_P11	E\$251118-P11	ES251124-011	ES251128-D11	ES25U36-P1J	E\$2511/8-D1
ORDER NO.											
OUTPUT	SAFETY MODEL NO.	ES25U05-050	ES25U07-075	ES25U09-090	ES25U12-120	ES25U15-150		ES25U24-240		ES25U36-360	ES25U48-480
	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	28V	36V	48V
	RATED CURRENT	4.0A	2.93A	2.77A	2.08A	1.66A	1.38A	1.04A	0.89A	0.69A	0.52A
	CURRENT RANGE	0.4~4.0A	0.3 ~ 2.93A	0.2 ~ 2.77A			0.1~1.38A			0.06 ~ 0.69A	
	RATED POWER (max.)	20W	22W	25W	25W	25W	25W	25W	25W	25W	25W
	RIPPLE & NOISE (max.) Note.3	50mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p	150mVp-p	180mVp-p	240mVp-p	240mVp-p	240mVp-p
	VOLTAGE TOLERANCE Note.4	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±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%	±1.0%
	LOAD REGULATION Note.6	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%
	SETUP, RISE, HOLD UP TIME	600ms, 50ms, 16ms at full load									
INPUT	VOLTAGE RANGE	90 ~ 264VAC 135 ~ 370VDC									
	FREQUENCY RANGE	47 ~ 63Hz									
	EFFICIENCY (Typ.)	70%	72%	76%	76%	78%	80%	82%	82%	82%	82%
	AC CURRENT	0.7A/100VAC									
	INRUSH CURRENT (max.)	30A / 230VAC									
	LEAKAGE CURRENT(max.)	0.25mA / 240VAC									
PROTECTION	OVERLOAD	110 ~ 150% rated output power 130 ~ 180% rated output power									
		Protection type : Hiccup mode, recovers automatically after fault condition is removed									
		105 ~ 135% rated output voltage									
	OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover									
ENVIRONMENT	WORKING TEMP.	0 ~ +50°C (Refer to output load derating curve)									
	WORKING HUMIDITY	20% ~ 90% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03% / °C (0~50°C)									
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
SAFETY & EMC (Note. 7)	SAFETY STANDARDS	UL60950-1, CSA C22.2, BSMI, CNS14336 approved									
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC									
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH									
	EMI CONDUCTION & RADIATION	Compliance to EN55022 class B, CNS13438 class B, FCC PART 15 / CISPR22 class B									
	HARMONIC CURRENT	Compliance to EN61000-3-2,3									
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A									
OTHERS	MTBF	500Khrs min. MIL-HDBK-217F(25°C)									
	DIMENSION	79*54*33mm (L*W*H)									
	PACKING	220g ; 60pcs / 13.5kg / CARTON									
CONNECTOR	PLUG	Standard type P1J: 2.1 $\phi$ * 5.5 $\phi$ * 11mm, tuning fork type, center positive for stock ; Other type available by customer requested									
	CABLE	Standard typ	e UL1185 6ft	(with ferrite of	ore) for stock	; Other type	available by o	customer requ	uested		
NOTE	1.All parameters are specified at 115VAC 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 20% to 100% rated load   7.The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives.										



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File Name:ES25U-SPEC 2010-03-15