



## 42W AC-DC Dual Output Desktop

## U45D series



### ■ Features :

- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Protections: Short circuit/ Over load/ Over voltage
- Fix switching frequency and regulation
- LED indicator for power on
- Fully enclosed plastic case
- Topology: PWM 3882 circuit
- Approvals: UL/ CUL/ TUV/ CE
- 1 year warranty

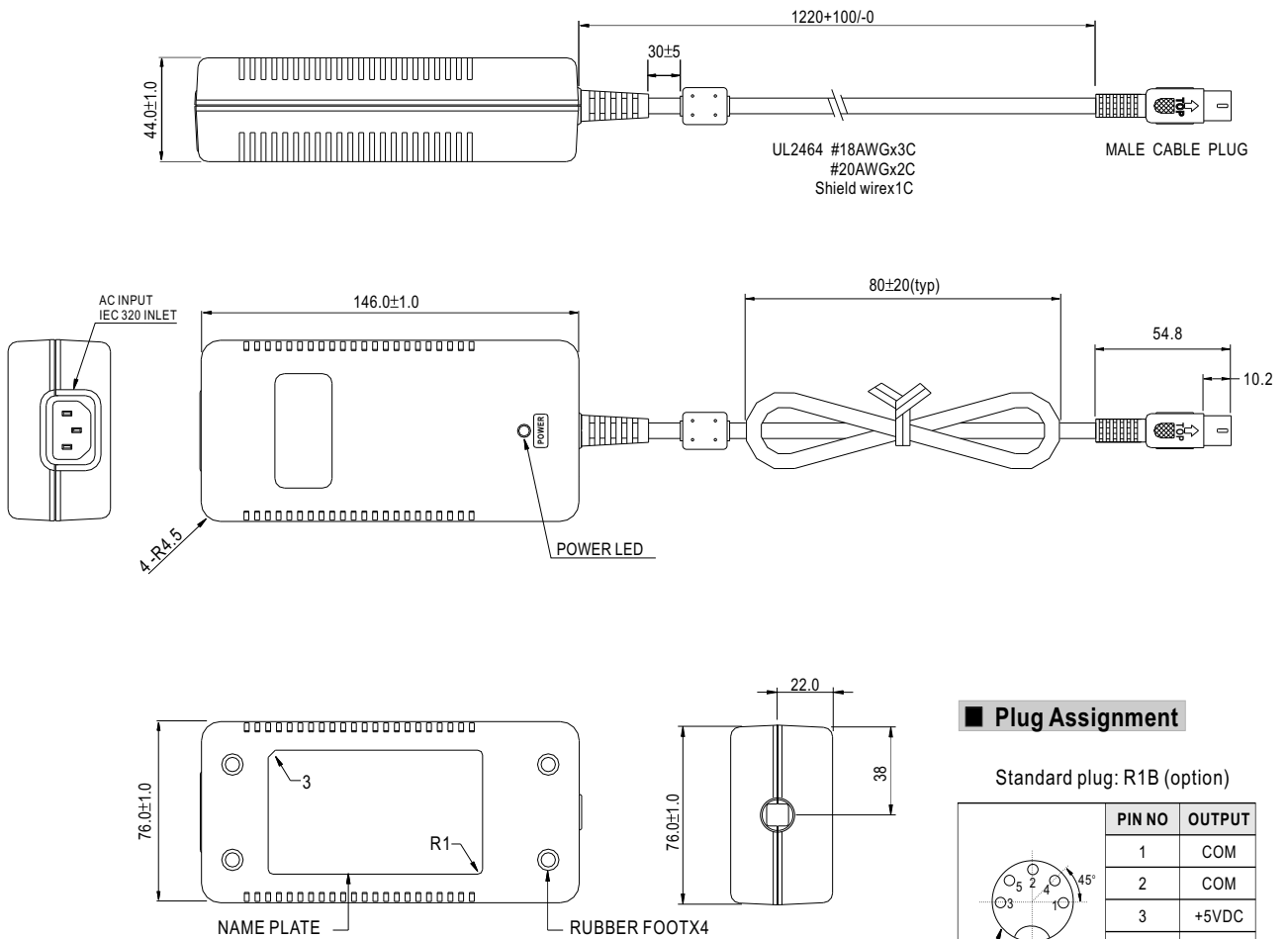


### SPECIFICATION

ORDER NO.		U45D201-R1B		U45D202-R1B		U45D203-R1B	
OUTPUT	SAFETY MODEL NO.	SPU45E-201		SPU45E-202		SPU45E-203	
	DC VOLTAGE <span>Note.2</span>	5V	12V	5V	15V	5V	24V
	RATED CURRENT	3.5A	2.0A	3.5A	1.5A	3.5A	1.0A
	CURRENT RANGE	0.5~ 3.5A	0.3 ~ 2.0A	0.5 ~ 3.5A	0.3 ~1.5A	0.5 ~ 3.5A	0.2 ~ 1.0A
	RATED POWER	42W		42W		42W	
	RIPPLE & NOISE (max.) <span>Note.3</span>	50mVp-p	100mVp-p	50mVp-p	120mVp-p	50mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	Fixed					
	VOLTAGE TOLERANCE <span>Note.4</span>	±4.0%	±6.0%	±4.0%	±6.0%	±4.0%	±6.0%
	LINE REGULATION <span>Note.5</span>	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION <span>Note.6</span>	±3.0%	±5.0%	±3.0%	±5.0%	±3.0%	±5.0%
SETUP, RISE, HOLD TIME		800ms, 50ms, 20ms at full load					
INPUT	VOLTAGE RANGE	90 ~ 264VAC    135~370VDC					
	FREQUENCY RANGE	47~63Hz					
	EFFICIENCY (Typ.)	70%		72%		74%	
	AC CURRENT	1.35A / 100VAC					
	INRUSH CURRENT (max.)	40A / 230VAC					
	LEAKAGE CURRENT (max.)	0.75mA / 240VAC					
PROTECTION	OVER LOAD	115~160% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed					
	OVER VOLTAGE	+5V: 110~140% rated output voltage Protection type : Shut down o/p voltage, re-power on to recover					
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	±0.04% / °C (0~50℃)					
	VIBRATION	10~200Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
SAFETY & EMC (Note. 7)	SAFETY STANDARDS	UL1950, CSA22.2 , TUV EN60950 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					
	EMI CONDUCTION & RADIATION	Compliance to EN55022(CISPR22) class B					
	HARMONIC CURRENT	Compliance to EN61000-3-2,3					
OTHERS	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, Light industry level, criteria A					
	MTBF	100K hrs min.    MIL-HDBK-217F(25℃)					
	DIMENSION	146*76*44mm (L*W*H)					
	PACKING	0.5kg; 25pcs / 17kg / CARTON					
CONNECTOR	PLUG	Standard type R1B: DIN 5PIN for stock ; Other type available by customer requested					
	CABLE	Standard type UL2464 18AWG*3C 20AWG*2C with ferrite core, 4fts length for stock; 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

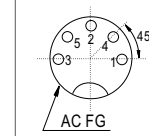
Unit:mm



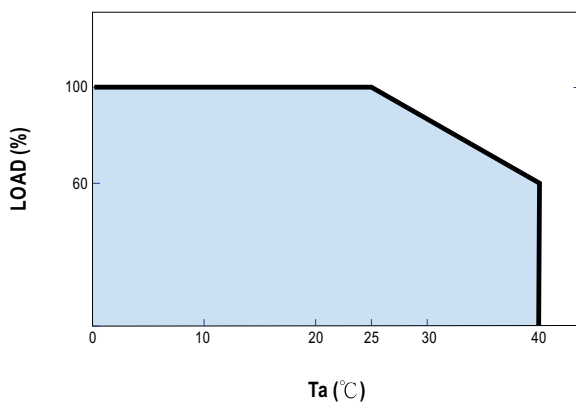
## Plug Assignment

Standard plug: R1B (option)

PIN NO	OUTPUT
1	COM
2	COM
3	+5VDC
4	COM
5	+Vout



## Derating Curve



## Static Characteristics

