

■ Features:

- Universal AC input / Full range
- Protections:SCP/OLP/OVP
- Battery deep discharge protection
- Batter reverse polarity protection by fuse
- "0" switch time from the SMPS to Battery when AC fail
- Constant current limit for charging battery
- Alarm signal for AC OK / Fail
- 100% full load burn-in test
- CE approved
- 3 years warranty

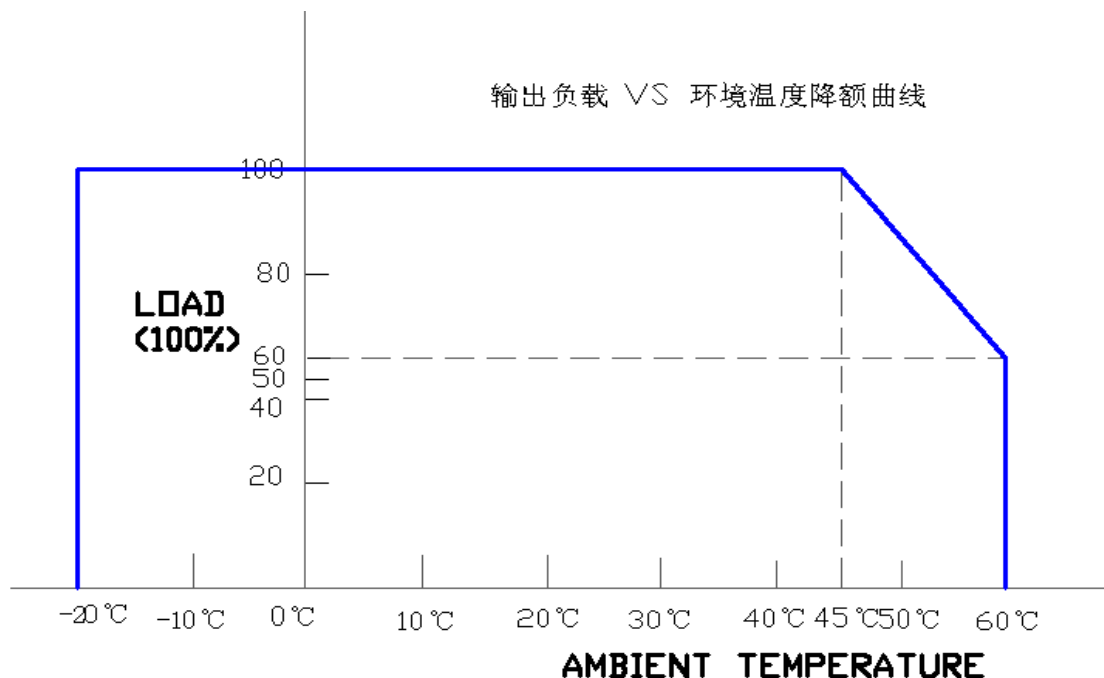


SPECIFICATIONS

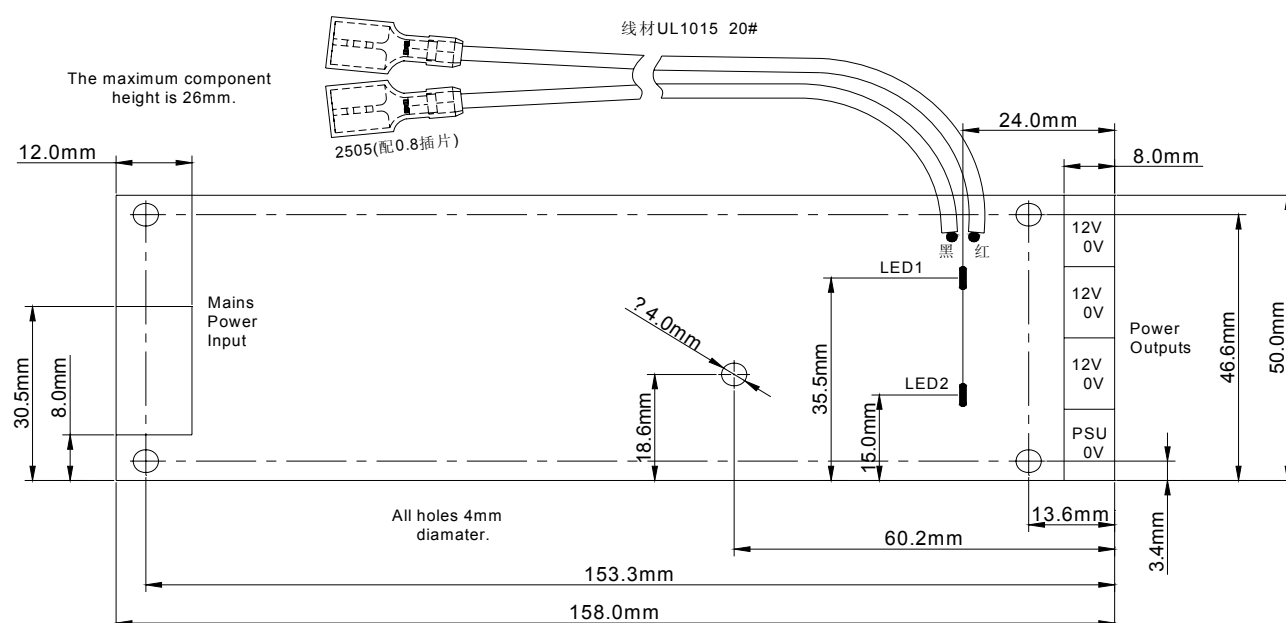
MODEL		WSD-U40D13.8+13.8	
OUTPUT	Output Number	V1 (mains AC power)	V2 (battery power)
	DC Output	13.8Vdc	13.8V
	Rated Current	2A	0.65A-1A (constant current limit)
	Current Range	Note 1 0.05A – 2.5A(Peak)	/
	Ripple and Noise	0~60℃	<100mV
		-20~0℃	<200mV
	Voltage Accuracy	±3.0%	/
	Line Regulation	±1.0%	/
	Load Regulation	±2.0%	/
	Voltage Adjustable Range	13.0-13.8Vdc	
	Set-up Time	<1.0S (230Vac input, Full load), <2.0S(115Vac input, Full load)	
	Hold up Time	>20mS(230Vac input, Full load), >10mS(115Vac input, Full load)	
	Temperature Coefficient	±0.03%/℃	
	Overshoot & Undershoot	<5.0%	
INPUT	Battery current during deep discharge	<1mA	
	Voltage Range	100Vac-240Vac	
	Frequency Range	50Hz-60Hz	
	Efficiency (Typical)	>80%@230Vac, >78%@115Vac	
	AC Current (max.)	1.2A	
	Inrush Current (Typical)	<50A@230Vac ; <30A@115Vac Cold start	
PROTECTION	Leakage Current	Input—Output: ≤0.25mA Input—PG: ≤3.5mA	
	Deep discharge cut off	9Vdc-10Vdc	
	Over Current	V1:2.5A-4.0A, hiccup mode, auto recovery	
	Over Voltage	V1: 110%-150%, constant voltage	
	Shorted Circuit	Long-time; auto recovery	
SIGNAL	Battery reverse polarity	Self auto-recovery fuse	
	AC OK / Fail signal	AC OK: Sig=0(0-1Vdc) Current≤50mA(this depends on Paxton control unit) AC Fail: Sig=1(voltage depends on Paxton control unit)	
Status Indication	Green LED(LED1)	AC ON, the device is being supplied from the SMPS.	
	RED LED(LED2)	AC OFF, the device is being supplied from the battery backup device	
ENVIRONMENT	Operating Temp. & Hum.	-20℃~60℃; 20%~90%RH No condensing (refer to the derating curve)	
	Storage Temp. & Hum.	-40℃~80℃; 10%~95%RH No condensing	
SAFETY & EMC	Safety Standards	UL60950-1; EN60950-1: 2006; LVD 73/23/EEC	

(Note 3)	Withstand Voltage	Primary-Secondary:3.0KVac;≤10mA.Primary-PG:1.5KVac;≤10mA.Secondary-PG:500VDC;≤10mA.
	EMC	Compliance to EN55022(CISPR22)Class B EN55024; FCC 15.107, FCC15.109,EMC 2004/108/EC
	Isolation Resistance	≥100M ohms
OTHERS	MTBF (MIL-HDBK-217F)	More than 200,000Hrs (25℃, Full load)
	Dimension (L*W*H)	150x50x28mm
	Cooling method	Cooling by free air convection
NOTE	1. All parameters NOT specially mentioned are measured at rated input, rated load and 25℃ of ambient temperature. 2. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 10uF parallel capacitor. 3. The SPS is considered a component which will be installed into final equipment. The equipment must be re-confirmed that it still meets EMC directives..	

Load Derating Curve



Mechanical Specification(mm)



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