

SPD SERIES LED DRIVER SPECIFICATIONS

Customer's Part Number:

MOONS' Part Number:

Model:

SPD-230_OVP

P/N:

CUSTOMER'S APPROVAL STAMP

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Please sign back after your approval. The specifications will come into force when we receive purchase order.

DWG	CHK	STANDARD	APPD.



■ **Features**

- Input voltage: 150-420Vac
- 10kV/10kV Surge level
- AC Over Voltage Protection
- Built-in Lightning protection
- Always be switched at zero voltage crossing.
- Very Low AC Input Inrush Current
- IP67 design for indoor or outdoor installations
- -40℃~+60℃ Operating Temperature
- Can delay start at -60℃



Version: A3

■ **Specification**

Model		SPD-230_OVP
Input	Voltage Range (V)Note.2	150~420Vac(Derating may be need under low inputs, Refer to 'Derating Curve')
	Voltage Rate (V)Note.2	200Vac-240Vac
	Frequency Range (Hz)	47~63
	AC Current(rms.)	2.0A maximum
	Inrush Current(Max.)	<5A at 230Vac input 25℃ Cold Start (time wide=500uS, measured at 50% Ipeak,Not applicable for the inrush current to Noise Filter for less than 0.2ms)
	Leakage Current(Max.)	0.25mA at 230VAC/50Hz input
Output	Output Voltage (V)	Same as AC input voltage @Vin< 265Vac
	Output Voltage (V)	<20VAC @Vin>305Vac
	Clamping Voltage (V)	L-N:<2kV ,L&N--FG:<2.5kV @10kV Surge
	Rated Current(A)	2A maximum
	Rated Power (W)	400W maximum
	Turn on delay Time	<0.5s, measured at 230Vac input
Protection	Input Over Voltage Protection	290Vac typical, 280~300Vac range
	Protection delay time	100ms maximum
	Over Voltage Recovery	265Vac typical, 255~275Vac range
	Recovery Delay Time	1 s maximum
	Over Temperature	Tun off output voltage,returning to normal after over temperature is removed, the typical Tc is 90℃.
Environment	Operating Temp.	-40~+60℃(Can delay start at -60℃)
	Operating Humidity	20~95%RH, non-condensing
	Tc	90℃ max
	Storage Temp., Humidity	-40~+85℃, 10-95%RH
	Vibration	10-500Hz,5G 12min/cycle, period for 72min each along X、Y、Z axes
Safety & EMC	Safety Standard	EN61347-1, EN61347-2-13 ,EN60598-1,EN62384
	Withstand Voltage	Can not test Hi-pot
	Isolation Resistance	I/P-FG, O/P-FG:100M Ohms/500Vdc/25℃/70%RH
	EMC Emission	EN55015, EN61000-3-2 Class C, EN61000-3-3
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11 (Surge L,N-FG 10KV,L-N 10KV) , EN61547 10kV Maximum Discharge Voltage 8/20μs Waveform 15 Strikes @5kA 8x20μSec Pulse Rating
Others	MTBF	300,000 hours, measured at full load, 25℃ ambient temperature MIL-HDBK-217F(25℃)
	Lifetime	50,000 Hours at Tc 75℃
	Dimension	125 x 42.5 x 34.5 mm (LxWxH)
	Weight	350g(Typ.)

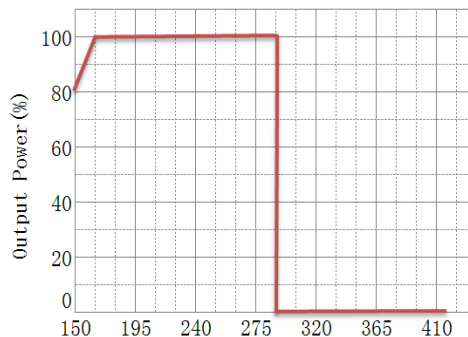
Note.1: Measured at full load and steady-state temperature in 25℃ ambient(Efficiency will be about 2% lower if measured immediately after startup); Note. 2: Derating may be needed under low input voltages , Please Refer to 'Derating Curve' ; Note. 3: All parameters NOT specially mentioned are measured at 230VAC input , rated load and 25℃ of ambient temperature ; Note. 4: refer to V/I curve

subject to change without notice

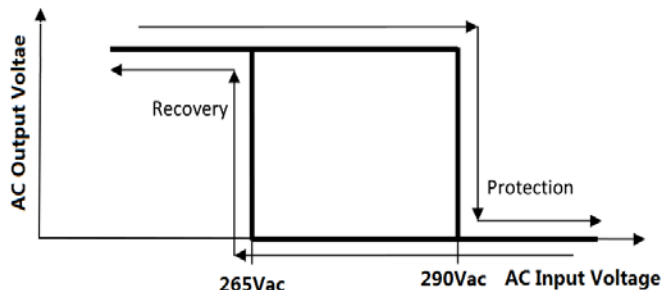
Page 3 of 4

■ Operating Curve

Derating Curve

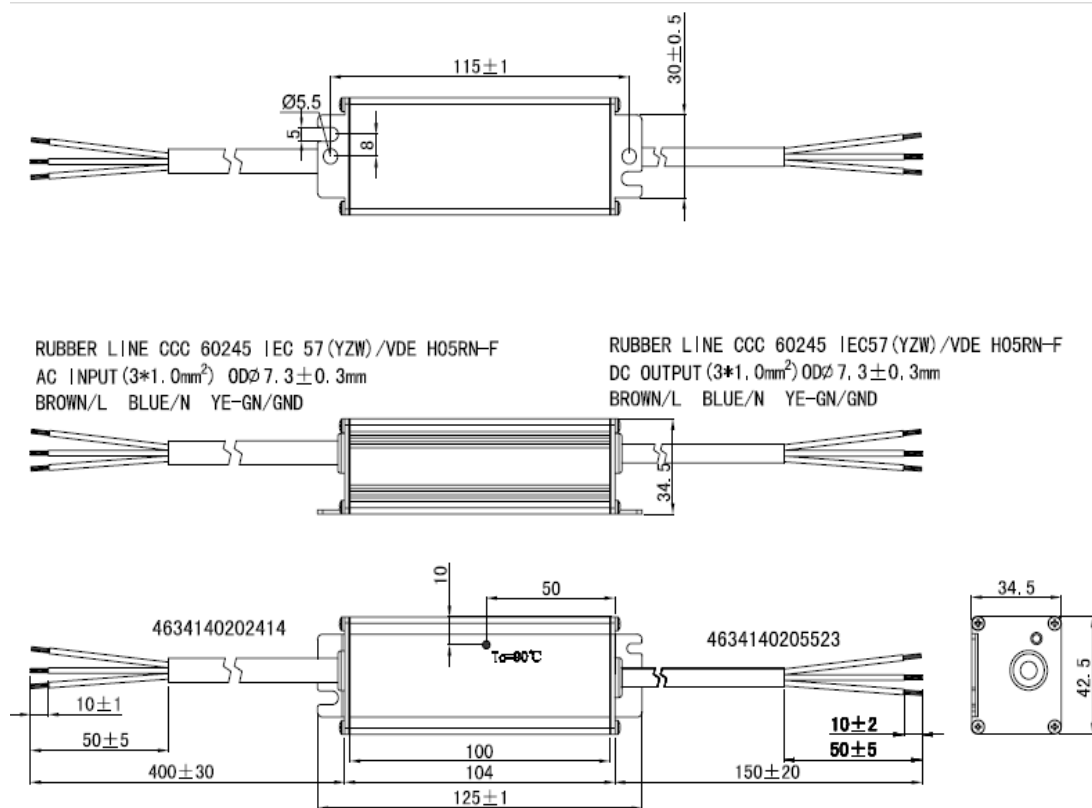


Protection Functions



■ Mechanical Specification

Dimensions(Unit:mm)



Nameplate:

AC/L BROWN (棕色) AC/N BLUE (蓝色) ⊕ YE-GN (黄绿色)		INPUT (输入)		MOONS' Built in Lightning Protection AC Over Voltage Protection Http://www.moons.com.cn Http://www.moonsindustries.com SHANGHAI MOONS' AUTOMATION CONTROL CO.,LTD (上海梅志自动化设备有限公司) MADE IN CHINA(中国制造)	
				SPD-230_OVP Input Voltage (输入电压): 150-420Vac 50/60Hz Input Current (输入电流): 0.2A@200Vac Output Voltage (输出电压): Same as AC Input Voltage@Vin <265VAC <20Vac@Vin> 305VAC	
				Output Current (输出电流): 2A Max Output Power (输出功率): 400W Max ta: 60°C tc: 90°C	
				OUTPUT (输出)	
				AC/L BROWN (棕色) AC/N BLUE (蓝色) ⊕ YE-GN (黄绿色)	

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Page 4 of 4