

LED DRIVER SPECIFICATIONS

Customer's Part Number:

MOONS' Part Number:

Model:

ME100M150AQ

P/N:

1400mA 43-72Vdc

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.

Rev.	Date	Contents	ECO NO.	DWG	CHK	APPR
A0	2019.6.4		New release	Lisheng	Liuqiang	Tubilin

■ **Features**

- Input voltage: 176-305VAC
- Built-in active PFC function: 0.98Typ.
- Low THD: 10% Typ.
- High efficiency: 90% Typ.
- Waterproof (IP67)
- Protection: OVP, SCP, OTP



■ **Specification**

ME100M150AQ

PN: 1400mA 43-72Vdc

	Efficiency(230Vac) ^{Note.1}	90%(Typ.), 88%(Min.)
	Voltage Range (V) ^{Note.2}	176 ~ 305Vac
	Voltage Rated (V) ^{Note.2}	200-240Vac
	Frequency Range (Hz)	47~63
	Power Factor	0.98 (Typical) at 220Vac
		>0.9 with 70%~100% load, at 220~277Vac
	THD	<15% with 80% ~ 100% load, at 100~277Vac
		<20% with 50%~100% load, at 100~277Vac
	AC Current(Max)	0.6A MAX at 220VAC
Output	Inrush Current(Max.)	65A at 230Vac input 25°C 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.)	0.75mA at 277Vac/60Hz
	Rated Output Voltage (V)	72
	Output Voltage range (V)	43-72
	Output Current Range(mA)	1400
	Rated Power (W)	100(max)
	Ripple Current	<10%((PK-AV) /AV) full load)
	Current Tolerance	5%
	Line Regulation	1%
Protection	Load Regulation	3%
	Turn on delay Time	1s(typ.), measured at 220Vac input
	Over Voltage(V)	<172
		Protection type: Voltage limiting,output will not exceed the upper limit voltage , recovers automatically after fault condition is removed.
	Short Circuit	Protection type: Hiccup mode. recovers automatically after short is removed.
Environment	Over temperature	Decreases output current,returning to normal after over temperature is removed.
	AC Brownout	Vin_on 140Vac typ.,Vin_off 130Vac typ.
	Operating Temp.	-40~+70°C(Refer to 'Derating Curve')
	Tc	90°C max
	Operating Humidity	20~95% RH non-condensing
	Storage Temp., Humidity	-40~+85°C , 10-95%RH
	Temp. Coefficient	0.03%/°C (0~50°C)
Safety & EMC	Vibration	10-500Hz,5G 12min/cycle , period for 72min each along X、Y、Z axes
	Safety Standard	UL8750;UL1012;CAN/CSA-C22.2 No.107-01;IEC/EN61347-1;IEC/EN61347-2-13;
	Withstand Voltage	I/P-O/P:3.75KVAC I/P-FG:1.875KV O/P-FG:1.5KV
	Isolation Resistance	I/P-O/P:100M Ohms (500VDC/25°C/70%RH)
	EMC Emission	EN55015, EN61000-3-2 Class C, EN61000-3-3
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547 (Surge L,N-FG 10KV, L-N 4KV)
Others	MTBF	250,000 hours, measured at full load, 25°C ambient temperature MIL-HDBK-217F(25°C)
	Lifetime	50,000 Hours at Tc 75°C(Refer to"Life Time VS. Tcase (Ref.)")
	Dimension	183 x67.5 x37 mm (LxWxH)
	Weight(Typ.)	0.85kg

Note.1: Measured at full load and steady-state temperature in 25°C 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°C of ambient temperature ;

subject to change without notice

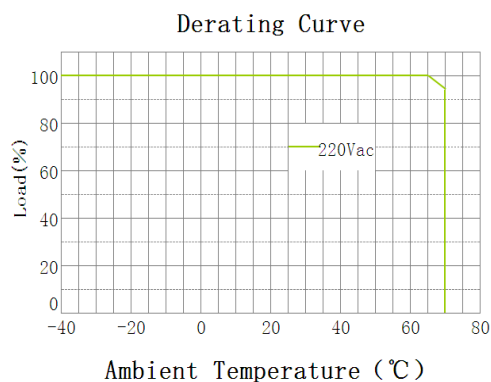
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SHANGHAI MOONS' AUTOMATION CONTROL CO., LTD.

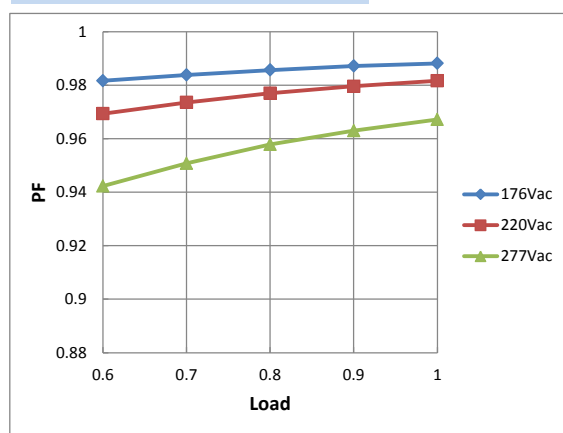
Add: No.168, Mingjia Road, Shanghai 201107, P.R.China

Tel: +86 (0)21 52634688 Website: www.moons.com.cn

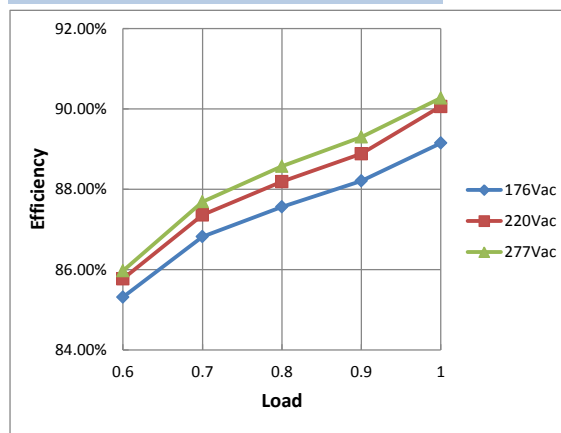
Derating Curve



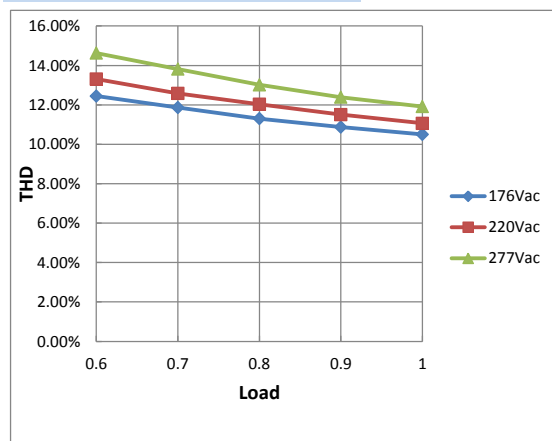
Power Factor VS. Load Curve



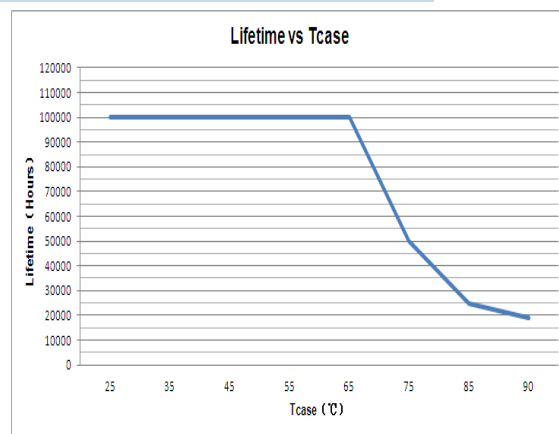
Efficiency VS. Load Curve



THD Curve

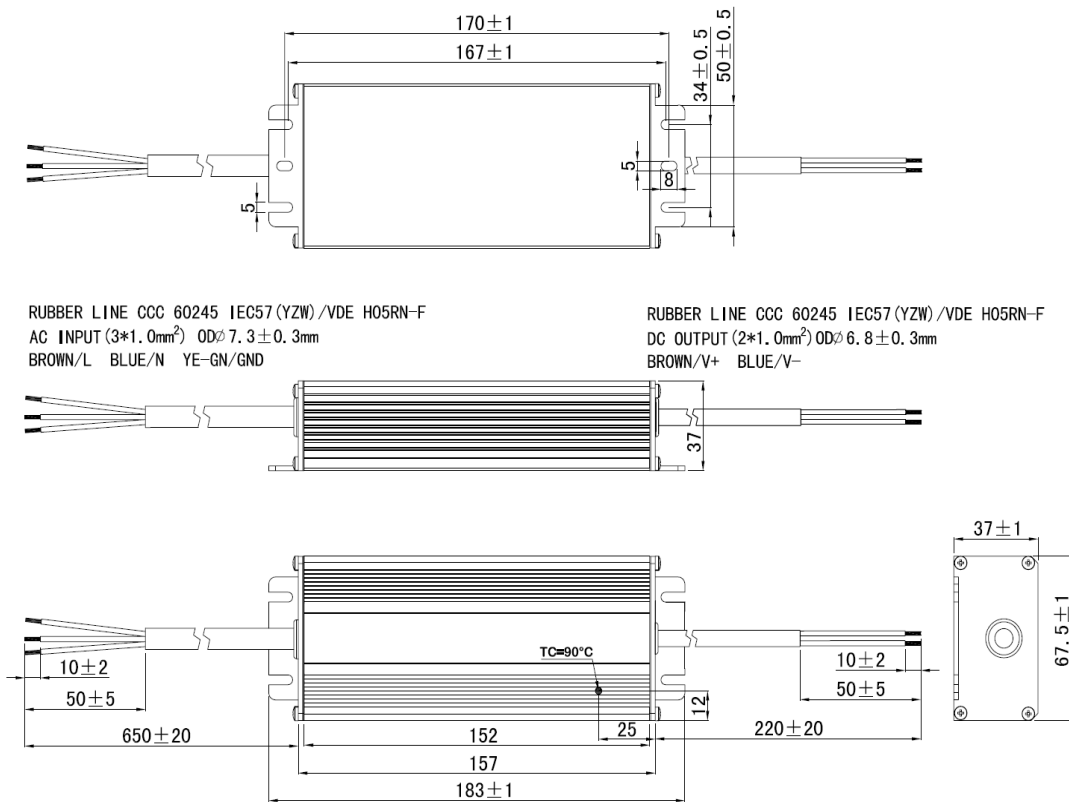


Life Time VS. Tcase (Ref.)



■ 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' LED Driver (LED控制装置) Energy Saving Solutions For LED Module Only Http://www.moons.com.cn Http://www.moonsindustries.com SHANGHAI MOONS' AUTOMATION CONTROL CO.,LTD (上海鸣志自动控制设备有限公司)	ME100M150AQ P/N:1400mA 43-72Vdc Input Voltage (输入电压): 200-240Vac 50/60Hz Input Current (输入电流): 0.6A Output Voltage (输出电压): 40-100Vdc Output Current (输出电流): 1000-1500mA U-OUT (最大输出电压): 115V MADE IN CHINA (中国制造)	ERC CE Output Current (输出电流): 1500mA Max Output Power (输出功率): 100W ta: 60°C tc: 90°C PF>0.90 IP67 RoHS SELV	● V- BLUE (蓝色) ● V+ BROWN (棕色) OUTPUT (输出)
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RoHS Compliance:

Our products comply with the European Directive 2002/95/EC, calling for the elimination of lead and other hazardous substances from electronic products.