

LED DRIVER SPECIFICATIONS

Customer's Part Number:

MOONS' Part Number:

Model:

ME150N070AQ

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.

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■ **Features**

- Input voltage: 198-264Vac
- Built-in active PFC function 0.98 Typ.
- High efficiency: up to 95% Typ.
- Output current settable 350-700mA
- Protection: OVP, SCP
- Built-in Lightning protection
- Protected up to 4KV power network fast transients



■ **Specification**

Model		ME150N070AQ	
Input	Efficiency(230Vac)(Typ.)Note.1	95.0%	
	Voltage Range (V)Note.2	198~264Vac	
	Voltage Rate (V)Note.2	220Vac-240Vac	
	Frequency Range (Hz)	47~63	
	Power Factor(Typ.)	>0.95 with 80%~100% load,at 230Vac	
	THD(Typ.)	<20% at 220VAC input 50Hz,80%~100% load	
	AC Current(Typ.)	0.75A at 230VAC	
	Inrush Current(Max.)	65A 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)	
Output	Leakage Current(Max.)	0.75mA at 240VAC/60Hz input	
	Voltage range (V) Note. 4	257-350	128-214
	Rated Current(mA) Note. 5	350(default)	700
	Rated Power (W)	150	
	Ripple Current (Typ.)	10% max. ((PK-AV) /AV) with LED default mode and full load)	
	Current Tolerance	±5%	
	Line Regulation	±1%	
	Load Regulation	±3%	
Protection	Turn on delay Time	<1.5s, at 230Vac	
	Over Voltage(V)	415	
	Short Circuit	No damage.The power supply shall be self-recovery when the fault is removed.	
Environment	Protection type:	Constant current limiting,recovers automatically after fault condition is removed.	
	Operating Temp.	-20~+50℃ (Refer to 'Derating Curve')	
	Operating Humidity	20~95%RH, non-condensing	
	Tc	75℃ max	
	Storage Temp., Humidity	-40~+85℃, 10-95%RH	
	Temp. Coefficient	0.03%/℃ (0~50℃)	
Safety & EMC	Vibration	10-500Hz,5G 12min/cycle, period for 72min each along X、Y、Z axes	
	Safety Standard	IEC61347-1,IEC61347-2-13	
	Withstand Voltage	O/P-FG:1.5KV	
	Isolation Resistance	O/P-FG:100M Ohms/500Vdc/25℃/70%RH	
	EMC Emission	EN55015 Class B, EN61000-3-2 Class C, EN61000-3-3	
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11 (Surge L,N-FG 2KV,L-N 1KV) ,EN61547	
Others	MTBF	300,000 Hours,measured at full load,25℃ ambient temperature	
	Lifetime	50,000 Hours at Tc 75℃(Refer to"Life Time VS. Tcase (Ref.)")	
	Dimension	280 x 30 x 21.5mm (LxWxH)	
	Weight	0.25kg(Typ.)	

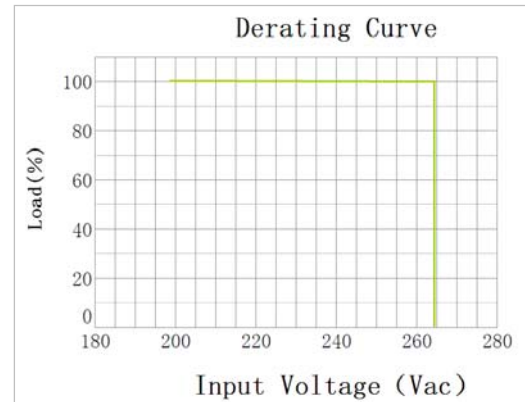
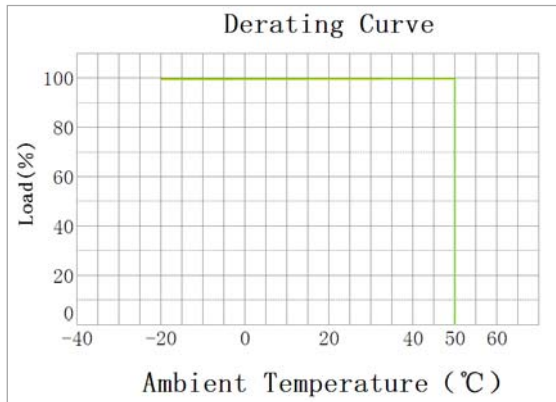
Note.1: Measured at full load and steady-state temperature in 25℃ ambient(Efficiency will be about 2% lower if measured immediately after startup); Note. 2: Derating may be needed under low input voltages , Please Refer to 'Derating Curve' ; Note. 3: All parameters NOT specially mentioned are measured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

subject to change without notice

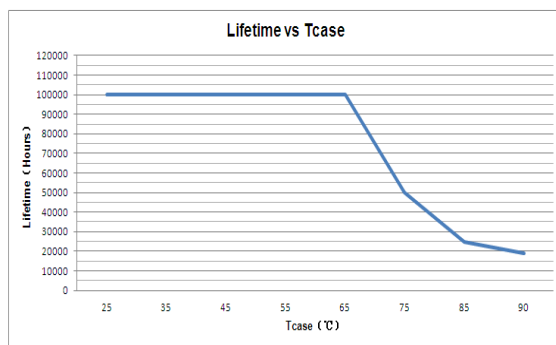
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■ Operating Curve

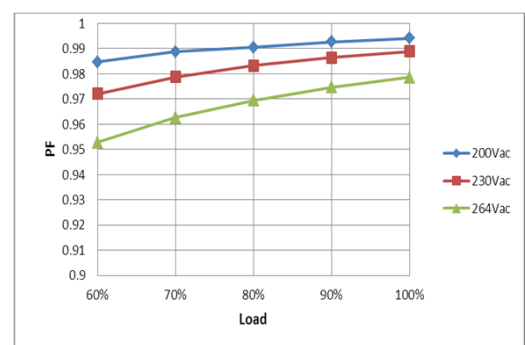
Derating Curve



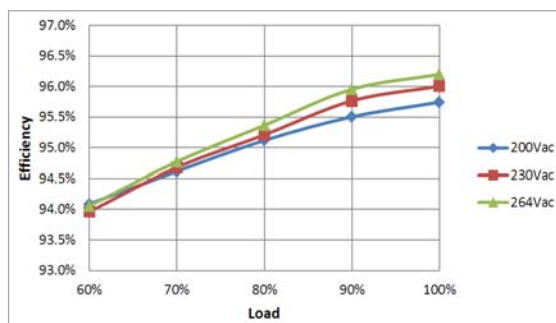
Lifetime vs. Case Temperature



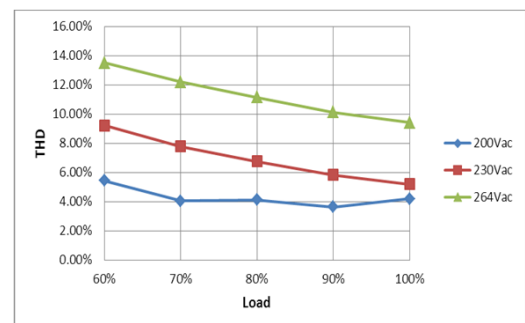
Power Factor Curve



Efficiency VS. Load Curve (typ.)



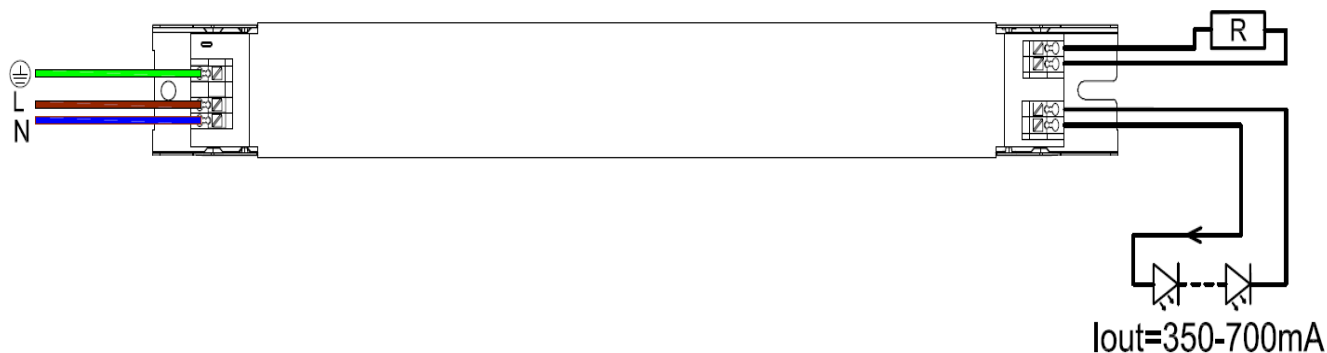
THD Curve



■ Instruction

An external resistor can be inserted in to the current setting terminal, allowing the user to adjust the LED driver output current. When no external resistor is connected, then the LED driver will operate at their default lowest current level (350 mA). A standard through-hole resistor can be used for the current setting. To achieve the most accurate output current it is recommended to select a quality low tolerance resistor. For the resistor / current value selection, please refer to the table below.

I .Connections



Note:

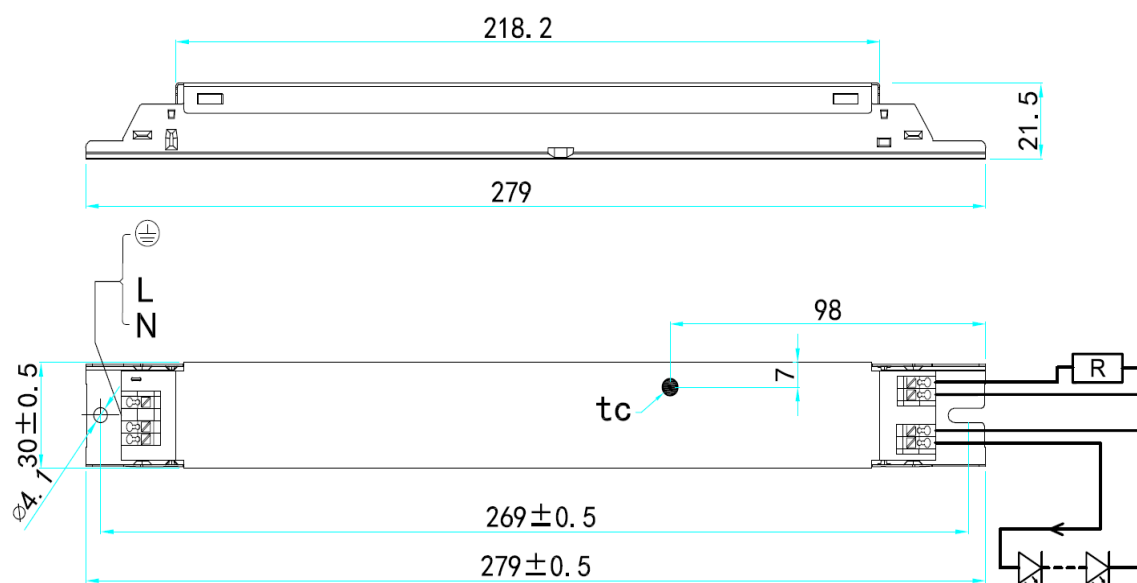
1. Wire size for connections: 0.5 - 1.5 mm² , wire type: solid core and fine-stranded
2. Not suitable for load side switching operation

II. Current setting resistor values (nominal Iout ±5%)

R (Ω)	0	220	470	820	1.2K	1.5K	2.2K	2.7K	3.9K	5.6K	6.8K	10K	18K	39K	∞
Iout(mA)	700	675	650	625	600	575	550	525	500	475	450	425	400	375	350

■ **Mechanical Specification**

Dimensions(Unit:mm)



Nameplate:

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.