

LED DRIVER SPECIFICATIONS

Customer's Part Number:

MOONS' Part Number:

Model:

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:90-305VAC.
- ◆ Built-in active PFC function.
- ◆ High efficiency: 93% Typ.
- ◆ Constant Power, Support DALI2.
- ◆ Input power metering.
- ◆ IP67 design for indoor or outdoor installation.
- ◆ Lightning protection.
- ◆ Compliance to worldwide safety regulations for lighting.
- ◆ Suitable for dry/damp/wet locations

■ **Specification**

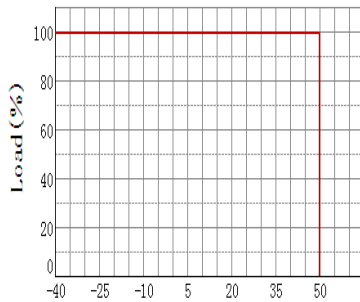
Model MU240H105AQ_DALI2		105
	Efficiency (230Vac)(Typ.) _{Note.1}	93.0%
	Voltage Range (Vac) _{Note.2}	90~305Vac, OR 127~ 430Vdc
	Voltage Range (Vdc) _{Note.2}	120~277Vac
	Frequency Range (Hz)	47~63
	Power Factor	PF>0.98/120VAC, PF>0.95/230VAC, PF>0.93/277VAC at full load
	THD	THD< 20% when output loading ≥ 80% at 120VAC/230VAC input and output loading ≥ 80% at 277VAC input
	AC Current	2.5A MAX at 120Vac, 1.3A MAX at 230Vac
	Inrush Current	COLD START 75A(twidth=680μs measured at 50% Ipeak) at 230VAC
	Leakage Current	0.75mA MAX at 277Vac 60Hz input
Output	Rated Output Voltage (Vdc)	343-228
	Output Voltage Range(Vdc)	343-137
	Rated Current (mA)	700-1050
	Rated Power (W)	240 (Max.)
	Current Tolerance _{Note.3}	±5%
	Line Regulation	±3%
	Load Regulation	±3%
	Turn-on Delay Time	<1.8s, at 120Vac; <1.5s, at 230Vac
24Vdc AUX ISO Output	Output Voltage (Vdc)	21.6Vmin.~24Vtyp.~26.4Vmax.
	Output Current(mAdc)	0mA~200mA max.
Protection	Over Voltage (V)(Typ.)	>390V
		Protection type: Hiccup mode. Recovers automatically after fault condition is removed.
	Short Circuit	Constant output current, recovers automatically after fault condition is removed.
	Over Temperature	Decreases output current,returning to normal after over temperature is removed.
Environment	Operating Temp.	-40~+50°C, refer to the derating curve for detail
	Operating Humidity	5~95%RH, non-condensing
	Storage Temp., Humidity	-40~+85°C, 5%-95%RH
	Temp. Coefficient	0.03%/°C (0~55°C)
	Vibration	5-55Hz, 2G 5min/cycle, period for 30min each along X、 Y、 Z axes
Safety & EMC	Safety Standard	UL8750, UL1012, CAN/CSA-C22.2 No.107.1, EN61347-1, EN61347-2-13,EN62384
	Withstand Voltage	I/P-O/P:3.5KVAC I/P-FG:1.75KVAC O/P-FG:0.5KVAC
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC/25°C/70%RH
	EMC Emission	EN55015/FCC Part 15 Class B, EN61000-3-2 Class C, EN61000-3-3
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level (surge:L--N:±4KV,L,N--FG:±6KV)
Others	MTBF	250,000 hours, measured at full load, 25°C ambient temperature MIL-HDBK-217F(25°C)
	Dimension	251*73.5*40
	Weight	1.4Kg

Note.1: Measured at full load and steady state, in 25°C ambient temperature. Efficiency will be about 2% lower if measured immediately after startup.

Note.2: Derating may be needed under low input voltages. Please check the static characteristics for more details.

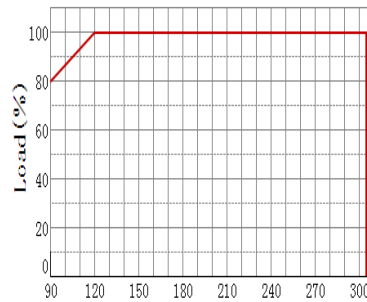
Note.3: Includes set up tolerance, line regulation and load regulation.

Derating Curve



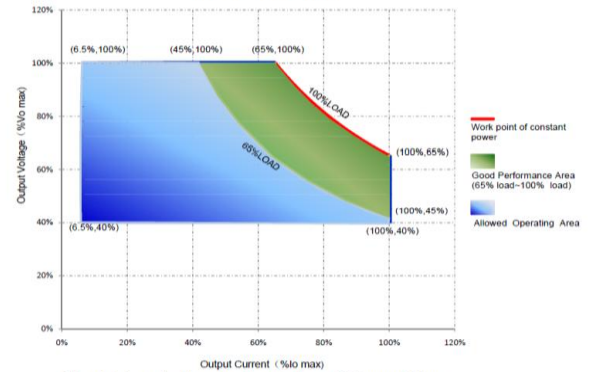
Ambient Temperature (°C)

V/I Curve

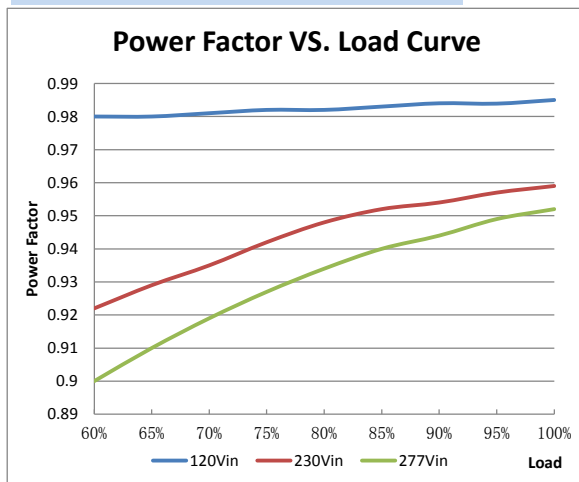


Input Voltage (V)

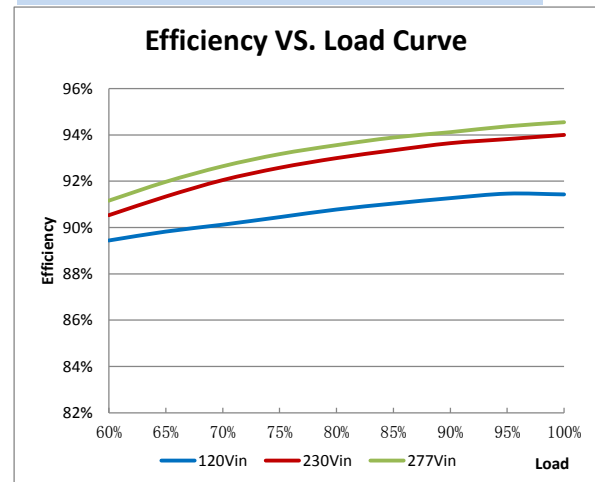
V/I Operating Area



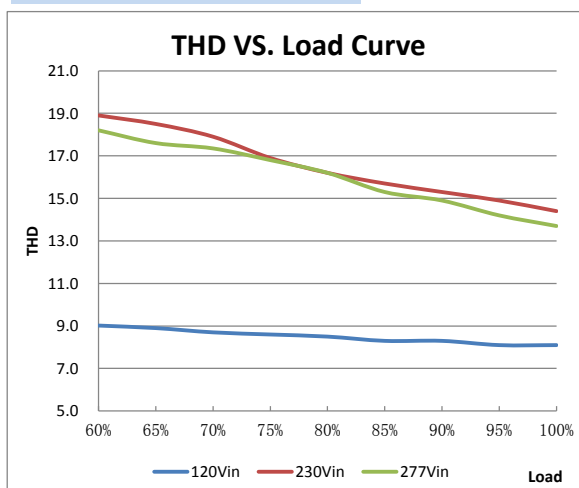
Power Factor VS. Load Curve



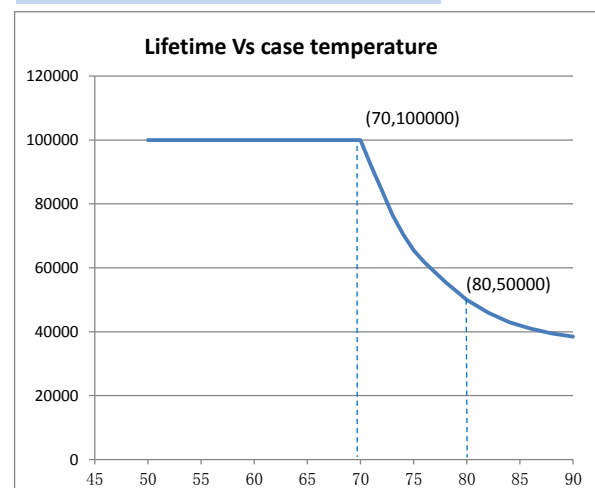
Efficiency VS. Load Curve(Model:850mA)



THD VS. Load Curve

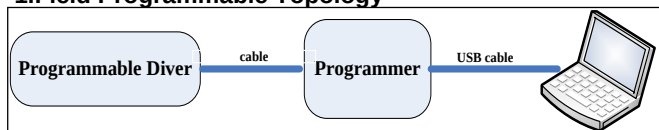


Life Time VS. Tcase



■ Instruction

1.Field Programmable Topology



The programmable driver can be programmed by using special PC software and the programmer module.

2.DALI Interface Description

Pin description

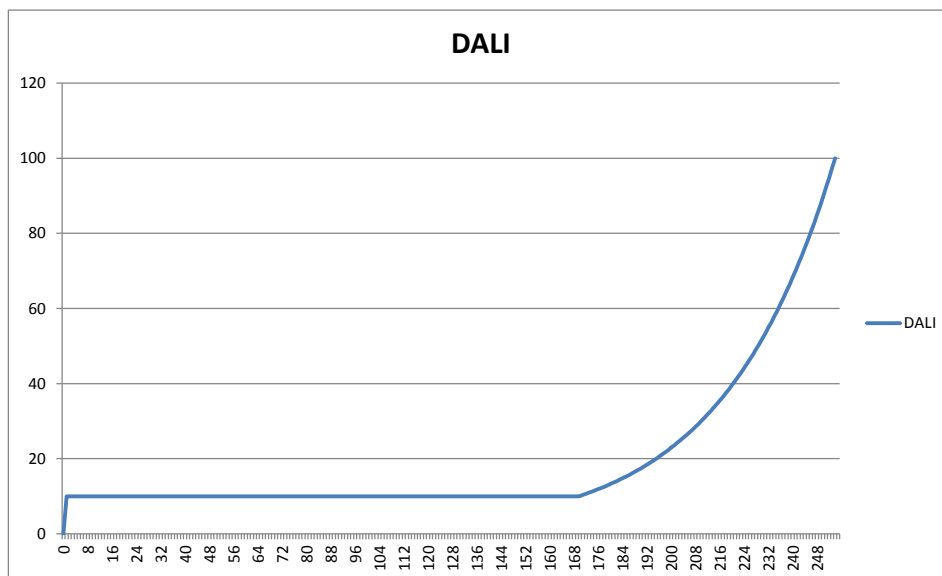
NO.	Name	FEATURES
P	DALI+	DALI BUS Positive pole
N	DALI-	DALI BUS Negative pole

Note: DALI bus wire is differential input line, which support reverse connection.

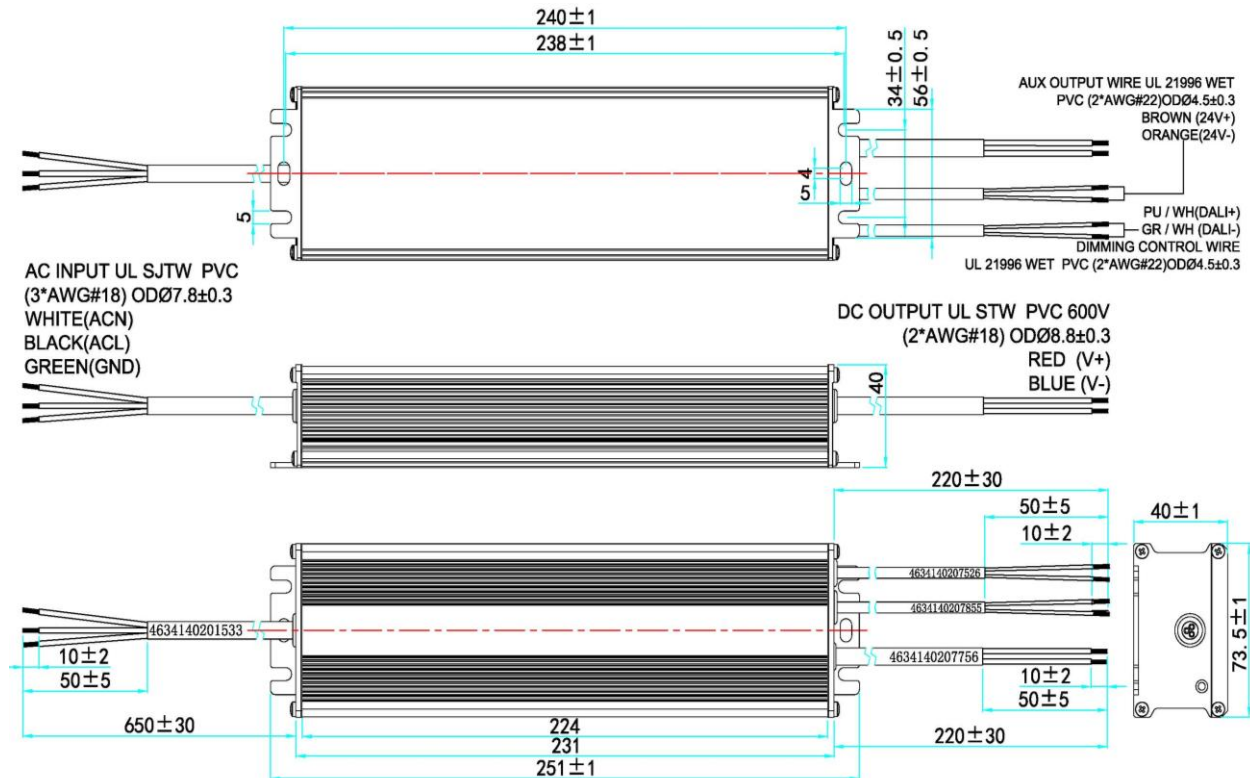
3.DALI Standards

Comply with IEC62386-101 (2.0 Version), IEC62386-102(2.0 Version) and IEC62386-207(1.0 Version) .

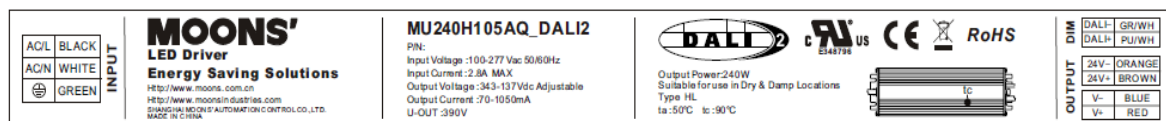
4.DALI Curve



■ Mechanical Specification (Unit: mm)



■ Label



RoHS Compliance:

Our products comply with the European Directive 2011/65/EU, calling for the elimination of lead and other hazardous substances from electronic products.