

Rev.	Date	Contents	ECO NO.	DWG	CHK	APPR
A0	2017/9/20			Wei Li	Qingfeng Zhuang	Bilin Tu

■ Features

- Input voltage: 90-305Vac
- Built-in active PFC function: 0.99 Typ.
- Low THD: 10% Typ.
- High efficiency: 89% Typ.
- IP67 design for indoor or outdoor installations
- Constant current/ 0-10V dimming/ clock dimming(CLK)/ PWM dimming
- Protection: OVP, SCP, OTP
- Full power at 66.7%Iomax~100%Iomax (constant power)
- High surge immunity



■ Specification

MU035H080AQ_CP/DALI		
Input	Efficiency (120Vac)(Typ.) _{Note.1}	87% (Typical) , >84.5% @ full load
	Efficiency (220Vac)(Typ.) _{Note.1}	89% (Typical) , >87% @ full load
	Voltage Range (V) _{Note.2}	90 ~ 305Vac
	Voltage Rated (V) _{Note.2}	100 ~ 277Vac
	Frequency Range (Hz)	47~63
	Power Factor	>0.9 at 110Vac~220Vac input, with 50%-100% load
		>0.9 at 277Vac/60Hz input, with 80%-100% load
	THD	<20%, at 110Vac~277Vac input, with 50%~100% load conditions
	AC Current (Max.)	0.5A at 110VAC input, 0.25A at 220VAC
	Inrush Current (Max.)	40A at 277Vac 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 277Vac/60Hz
	Rated Output Voltage (V)	44-66
	Output Voltage Range (V)	26-66
	Rated Current (mA)	530-800
	Output Current Range (mA)	53-800
	Rated Power (W)	35
	Output Current Setting Range	10%-100% of Io_max
	Constant Power Setting Range	66.7%-100% of Io_max
	Ripple Current (Typ.)	10% of Io_max. ((PK-AV)/AV) with LED default mode and full load)
	Current Tolerance	±7%
	Line Regulation	±7%
	Load Regulation	±7%
	Turn on delay Time	<0.5s, at 120Vac; <0.35s, at 220Vac
Protection	Over Voltage (V)(Typ.)	<74
	Short Circuit	Protection type: Voltage limiting.output will not exceed the upper limit voltage , recovers automatically after fault condition is removed.
	Over temperature	Protection type: Hiccup mode. recovers automatically after short is removed. When tc reaches 100℃+/-10℃, the output current decrease to approximate 50% of rated value until tc drops below 90℃.
Environment	Operating Temp.	-40~+70℃(Refer to 'Derating Curve')
	Tc	90℃ max
	Operating Humidity	20~95%RH
	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	meet the standard of UL8750, UL1310 Class 2, CSA C22.2 No.223-M91, EN61347-1, EN61347-2-13, GB19510.1, GB19510.14
	Withstand Voltage	I/P-O/P:3.75KVac, I/P-FG:1.875KV, O/P-FG:1.5KV
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500Vdc/25℃/70%RH
	EMC Emission	EN55015/FCC Part 15 Class B, EN61000-3-2 Class C, EN61000-3-3
Others	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547 (Surge: L-N 4KV, L/N-Earth 6KV)
	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	193 x 42.5 x34.5 (mm) (LxWxH)
Weight (Typ.)		0.54Kg

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 220VAC input , rated load and 25℃ of ambient temperature ; Note.4: Includes set up tolerance, line regulation and load regulation.

subject to change without notice

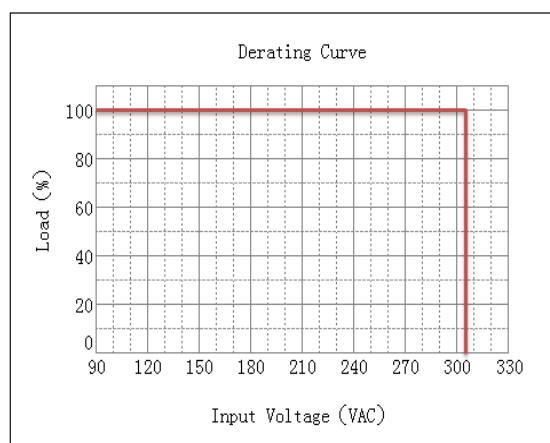
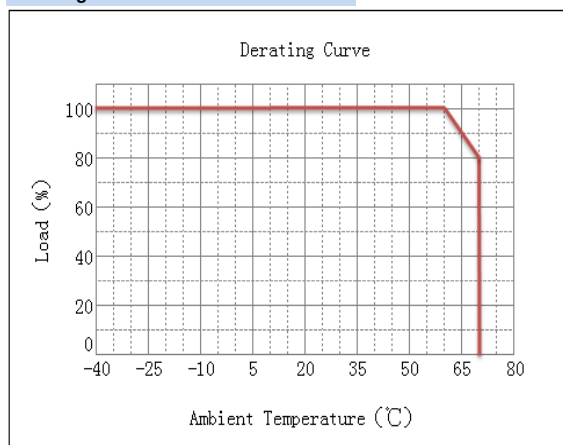
Page 3 of 7

SHANGHAI MOONS' AUTOMATION CONTROL CO., LTD.

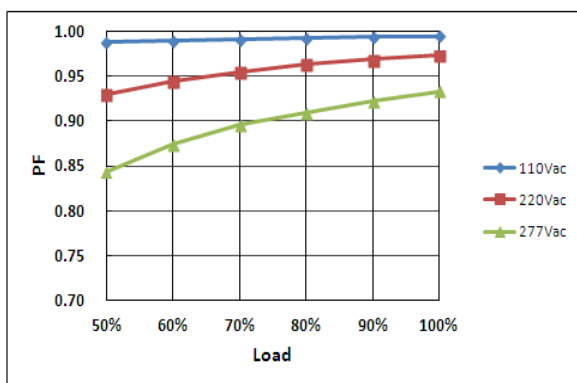
Add: No.168, Mingjia Road, Shanghai 201107, P.R.China

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

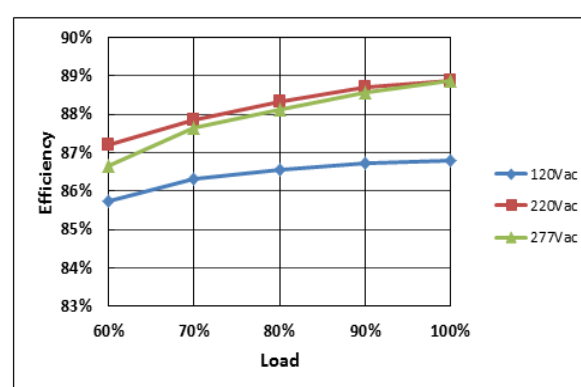
Derating Curve



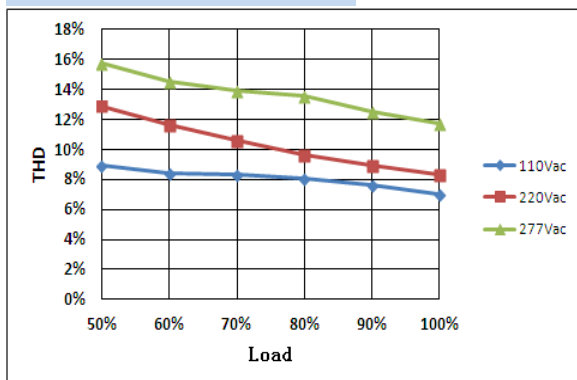
Power Factor VS. Load Curve



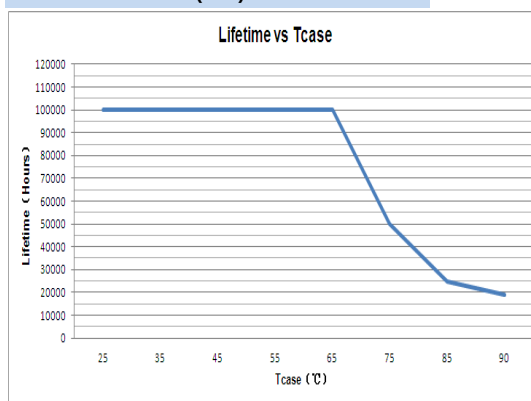
Efficiency VS. Load Curve (Ref.)



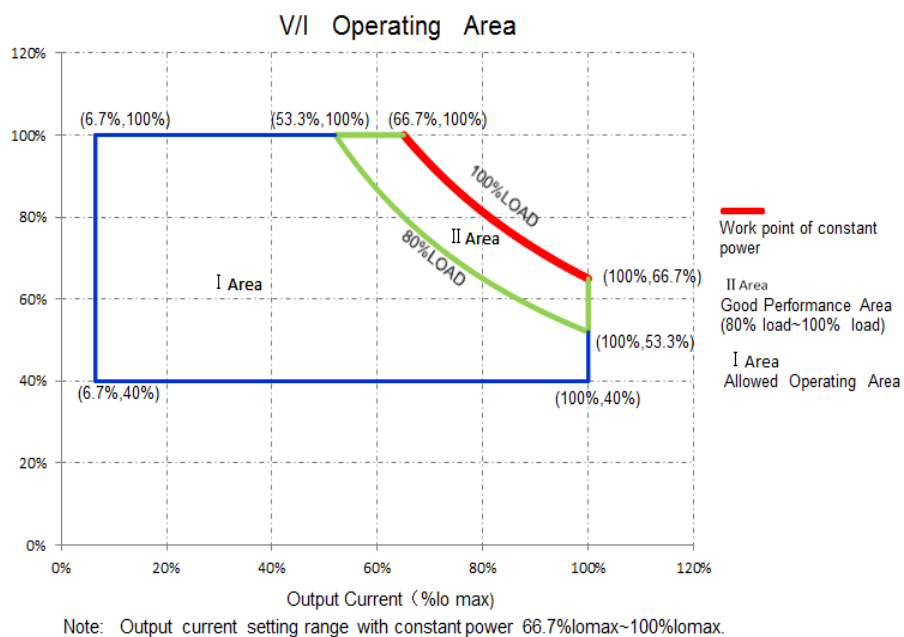
THD VS. Load Curve



Life Time VS. Tcase (Ref.)



V/I Curve



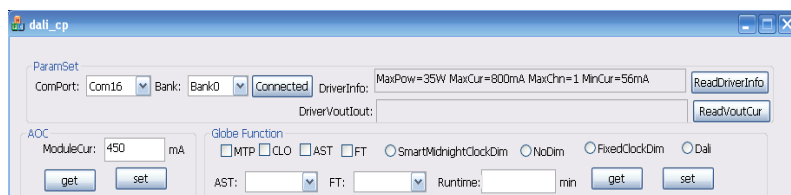
■ Instruction



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

2.Dimming Software Function Instruction

■ Adjustable Output Current(AOC)



Users can set the rated current between 66%*Max Current and 100%*Max Current.

3.DALI Interface Description

Pin description

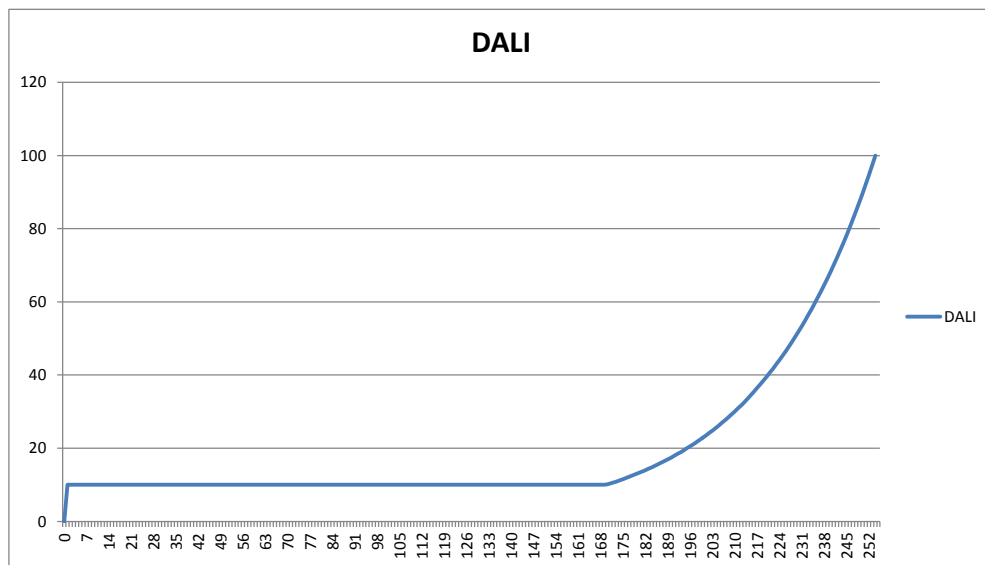
NO.	Name	FEATURES
P	DALI+	DALI BUS Positive pole
N	DALI-	DALI BUS Negative pole

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

4.DALI Standards

Comply with IEC62386-102.

5.DALI Curve



Add: No.168, Mingjia Road, Shanghai 201107, P.R.China
Tel: +86 (0)21 52634688 Website: www.moons.com.cn