

subject to change without notice

ME075M105AQ_CP

General-Outdoor

DWG NO. : MSSD-5421__01

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Features

- · Input voltage: 176-305VAC
- · Built-in active PFC function: 0.98Typ.
- Low THD: 10% Typ.High efficiency: 90% Typ.
- · Waterproof (IP67)
- Constant Current / 0-10V Dimming/ Clock Dimming(CLK)/PWM Dimming
- · Protection: OVP, SCP, OTP
- · Full Power at 65%Iomax ~ 100%Iomax (Constant Power)









		ME075M105AQ_CP PN:			
	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)	200-240Vac 47~63			
	requericy realige (112)				
	Power Factor	0.98 (Typical) at 220Vac >0.9 with 70%~100% load, at 220~277Vac			
		<15% with 80% ~ 100% load, at 100~277Vac <100% load, at 100~277Vac <20% with 50%~100% load, at 100~277Vac			
	THD				
	AC Current(Max)	0.42A MAX at 220VAC			
	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)			
	Leakage Current(Max.)	0.75mA at 277Vac/60Hz			
	Rated Output Voltage (V)	108-72			
	Output Voltage range (V)	43-108			
	Rated Current(mA)	700-1050			
	Output Current Range(mA)	70-1050			
	Rated Power (W)	75(max)			
	Output Current Set Range	6.5%lo_max ~ 100%lo_max			
Output	Constant Power Output Set Rang				
	Ripple Current	<10%((PK-AV) /AV) full load)			
	Current Tolerance	5%			
	Line Regulation	1%			
		3%			
	Load Regulation Turn on delay Time	0.5s(typ.), measured at 220Vac input			
	Tulli off delay Tillie	<130			
Protection	Over Voltage(V)	Protection type: Voltage limiting.output will not exceed the upper limit voltage , recovers automatically after fault condition is remov			
	Over Current	•			
	Short Circuit	Protection type: Hiccup mode. recovers automatically after short is removed.			
	Over temperature	Protection type: Resumable mode.when the inside temperature of PSU rise to 100 (Typ.), the PSU will shutdown.The power supply should resume its normal operation when the inside temperature of PSU drop to normal temperature.			
Environment	Operating Temp.	-40~+70 (Refer to 'Derating Curve')			
	Tc	90 max			
	Operating Humidity	20~95% RH non-condensing			
	Storage Temp., Humidity	-40~+85 , 10-95%RH			
	Temp. Coefficient	0.03%/ (0~50)			
	Vibration	10-500Hz,5G 12min/cycle , period for 72min each along X、Y、Z axes			
Safety & EMC	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 /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 10KV)			
Others	MTBF	250,000 hours, measured at full load, 25 ambient temperature MIL-HDBK-217F(25)			
	Lifetime	50,000 Hours at Tc 75 (Refer to Life Time VS. Tcase (Ref.)")			
	Dimension	173x67.5 x37mm (LxWxH)			
	Weight(Typ.)	0.8kg			

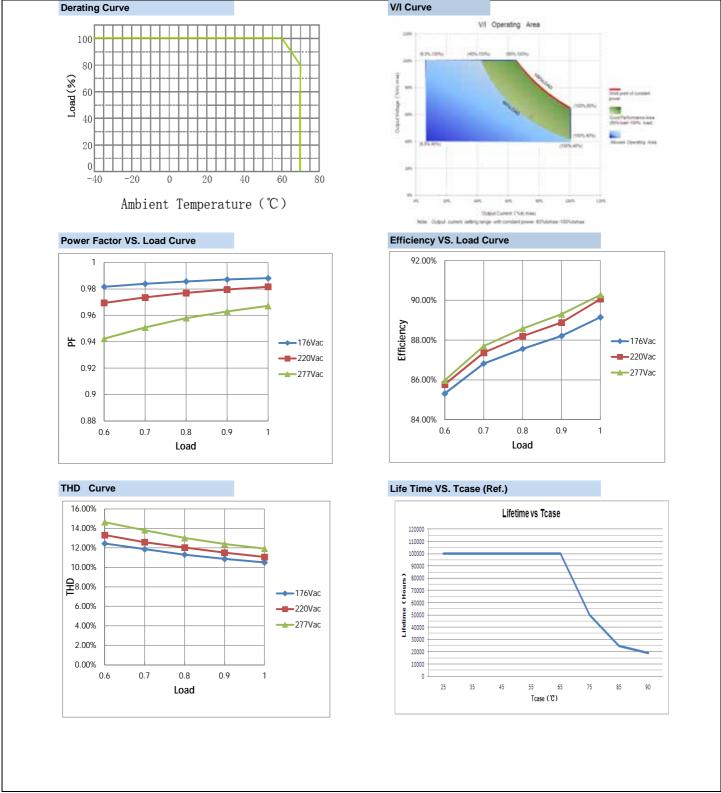
Note.1: Measured at full load and steady-state temperature in 25 ambient(Efficiency will be about 2% lower if measured immediately after startup); Note. 2: Derating may be needed under low input voltages, Please Refer to 'Derating Curve'; Note. 3: All parameters NOT specially mentioned are measured at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



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DWG NO.: MSSD-5421__01 A2





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Instruction

1. Field Programmable Topology



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

2.Dimming Interface Description

Pin description

The decomposition						
Pin	Name	Value	Description			
1	Vaux 12V	10.8V-13.2V	Passive dimmers power supply			
2	Dim+/Program	0-10V	Dimming/Programming input			
3	Dim-	0V	DC Ground			

DIMMING PROGRAMMING INTERFACE BK/WH(Vaux 12V) Dim+ Program / PU(紫色) Dim- / GR(灰色)

3.Dimming Software Function Instruction

■ Adjustable Output Current(AOC)



Users can set the rated current between 7%*Max Current and 100%*Max Current

■ Adjustable Startup Time(AST)



Set driver's "Start Fade up Time". It means how much time the driver costs to achieve the "Module Current" that the user set. The valid value is 0s, 1s, 2s, 5s, 10s, 20s, 40s.

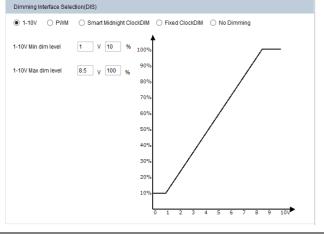
■ Fade Time(FT)



Set driver's "Fade up Time". This function is available in the Smart Midnight ClockDIM and Fixed ClockDIM mode; It means how much time the driver costs to achieve another dimming level from previous dimming level. The valid value is 0s, 1s, 2s, 5s, 10s, 20s, 40s.

■ 1-10V

Allow users to set the max and min output current and corresponding output voltage to clarify the 1-10V dimming curve. Input a 0~10V signal from 2nd pin of the dimming interface. Default: input 1V, output current 10%; input 8.5V, output current 100%.



DWM

Input a PWM signal from the 2nd pin(Dim+/Program) of the dimming interface to change the output current.User can set "Positive Logic" or "Negative Logic" of the PWM signal. PWM duty circle: 1%~99%(it has both positive and negative logics), frequency: 500Hz~5kHz, 3V~10V is high,-0.3V~0.8V is low.



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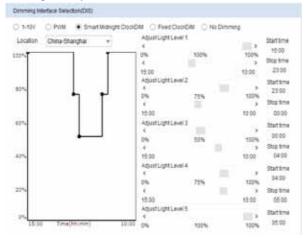
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Instruction

Integrated Dynadimmer

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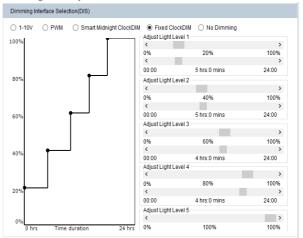
moving in better ways



Integrated Dynadimmer allows dimming to predefined light levels based on the nightly operating time. With flexibility in setting time and light levels, the user can configure the driver for specific locations and application needs. Using Integrated Dynadimmer, it is possible to set up to 5 dim levels and time intervals. The driver does not have a real time clock. Instead it runs a virtual clock, determined by the length of nightly operating hours. After 3 ON-OFF cycles, the driver will calculate the virtual clock time. A valid ONtime is defined as a period during which the driver operates continuously for

4 hours to 24 hours. For example, if the requirement in summer is: 23:00-00:00: 75%, 00:00-04:00: 50%, 04:00-05:00: 75% (other time 100% or Off). The driver should be powered on for 7h, so it can calculate the virtual clock time as 22:00. Then we can set the dimming plan: 22:00~23:00: 100%, 23:00-00:00: 75%, 00:00-04:00: 50%, 04:00-05:00: 75%. From summer to winter, the valid ON-time changes day by day. The driver should be powered on for 17h in winter, and it also can calculate the virtual clock time as 17:00. Then the dimming plan is 17:00~23:00: 100%, 23:00-00:00: 75%, 00:00-04:00: 50%, 04:00-05:00: 75%, 05:00~10:00: 100%, From the above, if we set the dimming plan as shown in the picture, after repeating the driver ON-time for 3 consecutive days, the dimming plan takes effect from the 4th day onwards. Each day the driver powered on, it has a different start time according to the virtual clock time. So the driver can satisfy different requirements for different seasons.

■ Integrated Dynadimmer Time Based



Allow users to separate 24hrs into 5 sections and corresponding output current.

No Dimming



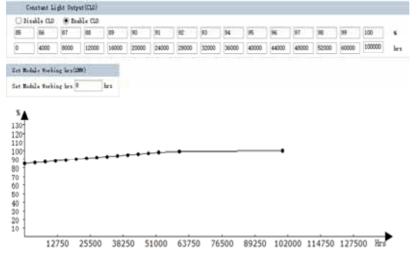
The driver will be in constant output mode.

■ Set MODULE Working hrs(SMW)



User can check how much time the driver works through this function

■ Constant Light Output(CLO)



Traditional light sources suffer from depreciation in light output over time. This applies to LED light sources as well. The CLO feature enables LED solutions to deliver constant lumen output through the life of the light engine. Based on the type of LEDs used, heat sinking and driver current, it is possible to estimate the depreciation of light output for specific LEDs and this information can be entered into the driver. The driver counts the number of light source working hours and will increase output current based on this input to enable CLO.

When the CLO feature is enabled, the driver nominal output current will be defined by the CLO percentage as shown by the equation below:

Driver target nominal output current = CLO percentage AOC. For example, in the CLO profile shown in Figure, between 52,000-60,000 working hours, the CLO percentage is set at 98%. Assuming the nominal AOC is set to 500mA, the driver output current with CLO enabled will be 0.98 x 500 = 600 mA.

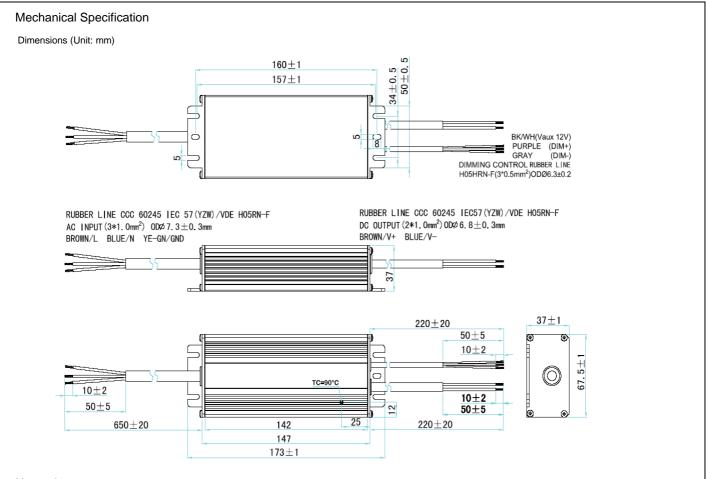
The CLO percentage can be set to a value between 85%-100%, in increments of 1%. The LED module working hours can be set at any value between (0-100,000 hours).

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

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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.