

■ **Features**

- Input voltage: 176-305VAC
- Built-in active PFC function: 0.99 Typ.
- Low THD: 5% Typ.
- High efficiency: 90% Typ.
- High surge immunity: DM 6KV,CM 6KV
- Support 0(1)-10V and 10V PWM dimming function
- Compliance to worldwide safety regulations for lighting



■ **Specification**

Model: ME035AXXXAQ_0-10V		035	045	053	070	085	092	105
Input	Efficiency(220Vac)(Typ.) _{Note.1}	90.0%	90.0%	89.0%	89.0%	88.0%	88.0%	88.0%
	Voltage Range (V) _{Note.2}	176 ~ 305Vac, OR 248~ 431Vdc						
	Voltage Rated (V) _{Note.2}	200-240Vac						
	Frequency Range (Hz)	47~63						
	Power Factor	0.99(Typ.) with full load,at 220Vac						
		>0.95,80%~100% load,at 220Vac						
	THD	5%(Typ.) with full load,<15%,80%~100% load,at 220Vac						
	AC Current(Max)	0.25A at 200VAC						
Output	Inrush Current(Max.)	20A 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 240Vac/50Hz						
	Output Voltage range (V)	50-100	39-78	33-66	25-50	21-41	19-38	17-33
	Rated Current(mA)	350	450	530	700	850	920	1050
	Rated Power (W)	35	35	35	35	35	35	35
	Ripple Current,((PK-AV) /AV), LEDH mode full load at 220Vac	<35%,	<35%,	<40%,	<35%,	<35%,	<40%,	<35%,
	Current Tolerance	5%						
	Line Regulation	3%						
Protection	Load Regulation	3%						
	Turn on delay Time	<1.5s, at 220Vac						
	Over Voltage(V)	150	120	100	<75	60	60	60
Environment	Short Circuit	Protection type: Voltage limiting.output will not exceed the upper limit voltage , recovers automatically after fault condition is removed.						
	Operating Temp.	-40~+70℃(Refer to 'Derating Curve'),						
	Tc	90℃						
Safety & EMC	Operating Humidity	20~95% RH non-condensing						
	Storage Temp., Humidity	-40~+85℃ , 10~95%RH						
	Temp. Coefficient	0.03%/℃ (0~50℃)						
Others	Vibration	10-500Hz,5G 12min/cycle , period for 72min each along X、 Y、 Z axes						
	Safety Standard	EN61347-1, 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, I/P-FG, O/P-FG:100M Ohms/500Vdc/25℃/70%RH						
	EMC Emission	EN55015, EN61000-3-2 Class C, EN61000-3-3						
	EMC Immunity	IEC61000-4-2,3,4,5,6,8,11, IEC61547, (Surge: L-N 6KV, 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	165 x 42.5 x 34.5 (mm) (LxWxH)						
	Weight(Typ.)	0.44KG						

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

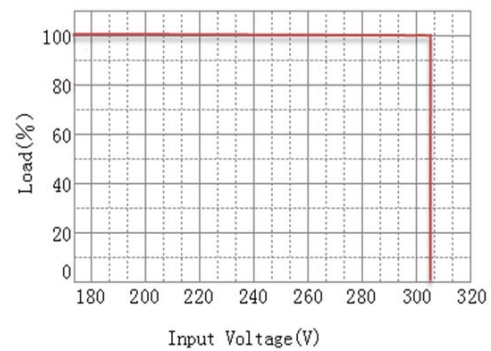
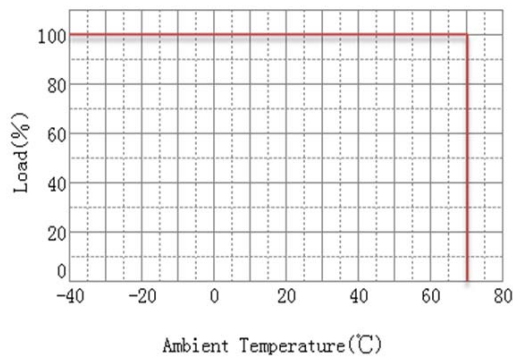
subject to change without notice

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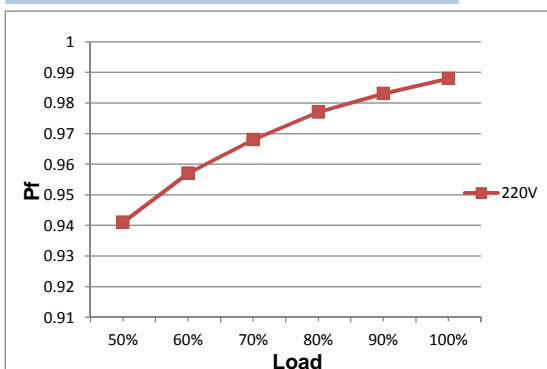
SHANGHAI MOONS' AUTOMATION CONTROL CO., LTD.

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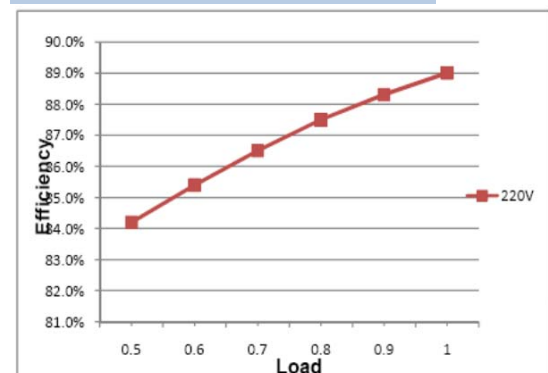
Derating Curve



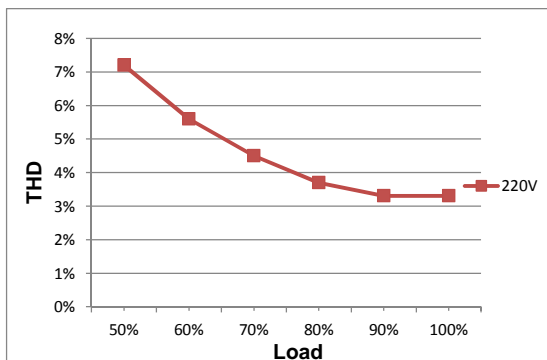
Power Factor VS. Load Curve(Ref. 700mA)



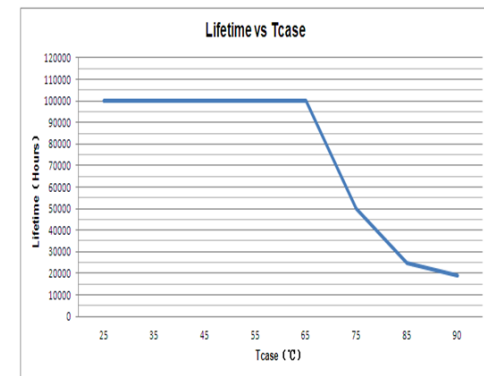
Efficiency VS. Load Curve(Ref. 700mA)



THD Curve(Ref. 700mA)



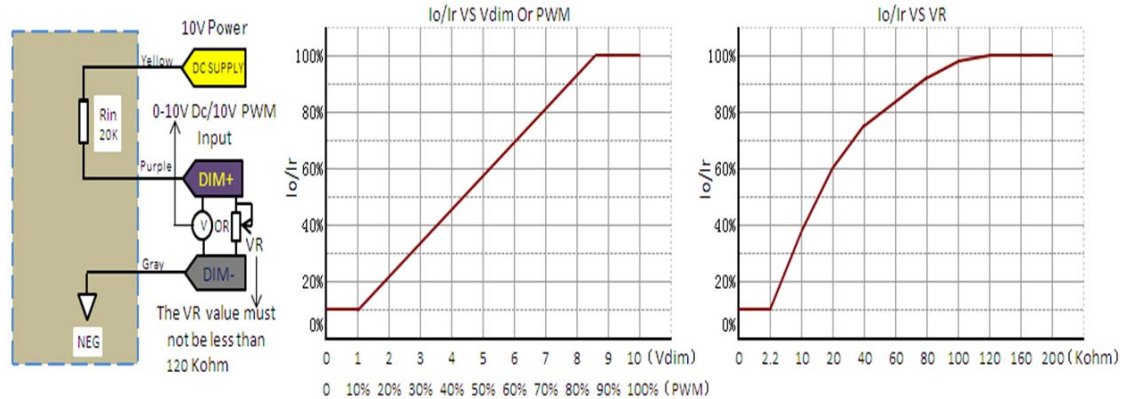
Life Time VS. Tcase (Ref.)



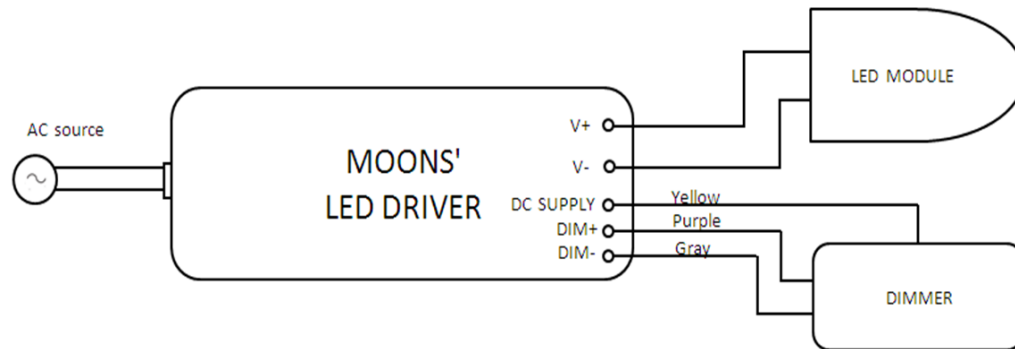
Dimming function description:

- 1.The dimming control may be operated from an input signal of 0(1)-10 Vdc / 10V PWM (Frequency range:500Hz to 5KHz,Duty:0-100%) .
- 2.With one external variable resistor,the VR value must not be less than 120Kohm.

Dimming module diagram and dimming curve:



Dimming connection diagram:



Notes:

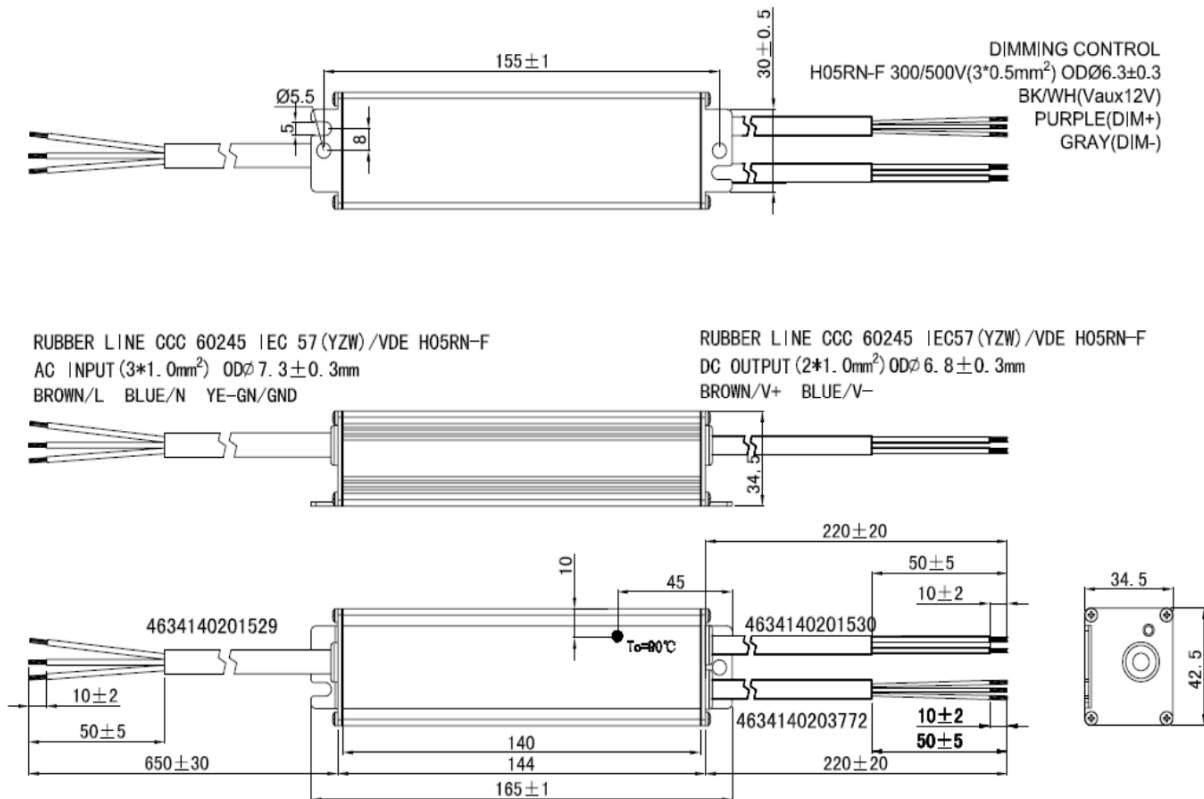
- 1.Io is actual output current with dimming control signal and Ir is rated output current.
- 2.The dimming control signal can be operated output current from 100% to 10% Ir,output voltage must be maintained above 50% of the rated output voltage.
- 3.Do not connect dimming wire to the output;otherwise,the LED driver can not work normally.
- 4.The dimming signal is allowed to be less than 1V/10% PWM ,the output current can be maintained 10% Ir. (about on/off function specification ,please contact MOONS for details).

Dimming Control Module Parameter(On secondary side)

Parameter	Min.	Typ.	Max.	Notes
DC supply output voltage	8V	10V	12V	
DC supply output source current	0 mA	-	10mA	
Absolute maximum voltage on the DIM+	-2V	-	10V	
Source current on the DIM+	0 mA	-	0.5mA	
Value of Rin (the resistor inside the LED driver which locate between the DIM+ and the DC Supply)	19.8k	20k	20.2k	

■ Mechanical Specification

Dimensions (Unit: mm)



■ Nameplate(Ref.700mA)

<p>● AC/L BROWN (棕色)</p> <p>● AC/N BLUE (蓝色)</p> <p>● YE-GN (黄绿色)</p> <p>INPUT (输入)</p>	<p>MOONS'</p> <p>ME035A070AQ_0-10V</p> <p>P/N:</p> <p>LED Driver (LED控制装置)</p> <p>Energy Saving Solutions</p> <p>Input Voltage (输入电压): 200-240Vac 50/60Hz</p> <p>Input Current (输入电流): 0.25A@200Vac</p> <p>Output Voltage (输出电压): 25-50Vdc</p> <p>U-OUT (最大输出电压): 60V</p> <p>Output Current (输出电流): 700mA</p> <p>Output Power (输出功率): 35W</p> <p>ta: 70°C tc: 90°C</p> <p>SHANGHAI MOONS' AUTOMATION CONTROL CO., LTD</p> <p>(上海鸣志自动控制设备有限公司) MADE IN CHINA (中国制造)</p> <p>Http://www.moons.com.cn</p> <p>Http://www.moonsindustries.com</p> <p>IP67</p> <p>RoHS</p> <p>SELV</p>	<p>● V- BLUE (蓝色)</p> <p>● V+ BROWN (棕色)</p> <p>10V BK/WH (黑白)</p> <p>0-10V PURPLE (紫色)</p> <p>NEG GRAY (灰色)</p> <p>OUTPUT (输出)</p> <p>DIMMING (调光)</p>
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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.