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### PU025HXXXAQ\_0-10V

### **General Built-in**

DWG NO.: MSSD-4204

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#### ■ Features

- · Input voltage: 90-305VAC
- · Built-in active PFC function: 0.99 Typ.
- Low THD: 10% Typ.High efficiency: 88% Typ.
- IP66 design for indoor installations
- · High surge immunity
- · Support 0-10V / 10V PWM / VR dimming function
- · Compliance to worldwide safety regulations for lighting
- · Suitable for dry/damp locations







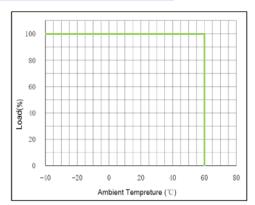
	fication												
Model (PU025HXXXAQ_0-10V)		035	045	050	053	070	105	120	140	175	210		
(PC	Efficiency (120Vac)(Typ.) <sub>Note.1</sub>	070/	000/	050/	050/	050/	0.40/	000/	000/	040/	000/		
Input		87%	86%	85%	85%	85%	84%	83%	82%	81%	80%		
	Efficiency (230Vac)(Typ.) <sub>Note.1</sub>	88% 87% 86% 86% 86% 85% 84% 83% 82% 81%											
	Voltage Range (V) <sub>Note.2</sub>	90 ~ 305Vac, OR 127~ 430Vdc 100Vac-277Vac											
	Voltage Rated (V) <sub>Note.2</sub>	47~63											
	Frequency Range (Hz)												
	Power Factor	0.99 (Typ.), with 85%~100% load, at 120Vac											
		0.97 (Typ.), with 85%~100% load, at 230Vac											
	THD	0.9 (Min.), with 85%~100% load, at 277Vac											
		10% (Typ.), at 220Vac input, with 80%~100% load conditions 15% (Typ.), at 110/277Vac input, with 80%~100% load conditions											
	AC Current (Max.)	0.4A at 100VAC input, 0.2A at 230VAC											
	710 Guitori (Max.)	* '											
	Inrush Current (Max.)	15A at 230Vac input 25°C Cold Start ( time wide=500uS, measured at 50% Ipeak,Not applicable for the inrush current to Noise Filter for le than 0.2ms)											
	Leakage Current (Max.)	0.5mA at 277Vac/60Hz											
	Voltage Range (V)	36~72	28~55	25~50	24~48	18~36	12~24	10~21	9~18	7~14	6~12		
	Rated Current (mA)	350	450	500	530	700	1050	1200	1400	1750	2100		
	Rated Power (W)	25.2	24.75	25	25.4	25.2	25.2	25.2	25.2	24.5	25.2		
Output	Nated Fower (VV)	20.2	24.70	20	20.4	20.2	20.2	20.2	20.2	24.0	20.2		
	Ripple Current( (PK-AV)/AV) with LED default mode full load(Typ.)	<25%	<25%	<30%	<30%	<30%	<30%	<35%	<35%	<40%	<40%		
	Current Tolerance	5%											
	Line Regulation	5%											
	Load Regulation	5%											
	Current ADJ. Range	-											
	Turn on Delay Time				<1.2	s, at 120Vac;	<0.75s, at 230	)Vac					
Protection	Over Voltage (V)	90	60	58	56	42.4	32	25	25	22	18		
		Protection type: Limit the output voltage, recovers automatically after fault condition is removed											
	Short Circuit			Hiccu	ıp mode, recov	ers automatica	ally after fault o	ondition is rer	noved.				
	Operating Temp.				-40~	+60°C( Refer t	o 'Derating Cu	rve')					
	Tc					90℃	max						
Environment	Operating Humidity	20~95%RH											
	Storage Temp., Humidity					-40~+85°C	10-95%RH						
	Temp. Coefficient					0.03%/°C	( 0~50°C )						
	Vibration			10~50	0Hz, 5G 12min	/cycle, period	for 72min each	along X、Y、	Z axes				
Safety & EMC	Safety Standard		UL8750,	UL1012, UL13	10, CSA-C22.2	NO. 107.1, C	SA-C22.2 NO.	. 223-M91, EN	l61347-1, EN6	1347-2-13			
	Withstand Voltage					I/P-O/P:3	3.75KVac						
	Isolation Resistance				I/P-O/F	2:100M Ohms/	500Vdc/25°C/7	70%RH					
	EMC Emission			EN55	015/FCC Part	15 Class B, El	N61000-3-2 CI	ass C, EN610	00-3-3				
	EMC Immunity				EN61000-4-2	2,3,4,5,6,8,11,	EN61547 (Sur	ge: L-N 2kV)					
0.1	MTBF			300	0,000 Hours, m	easured at full	load, 25°C am	bient tempera	ature				
	Lifetime	50,000 Hours at Tc 75°C (Refer to "Life Time VS. Tcase (Ref.)")											
0.1	Liiotiiiio	80 x 78x 27 (mm) (LxWxH)											
Others	Dimension				-	80 x 78x 27 (ı	mm) (LxWxH)						

Note.1: Measured at full load and steady-state temperature in 25°C ambient; Note. 2: Derating may be needed under low input voltage, Please refer to 'Derating Curve'; Note. 3: All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C ambient temperature;

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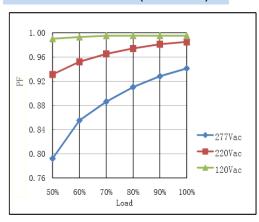




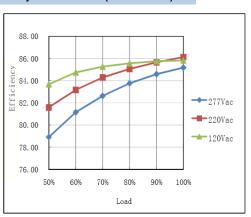


# 100 80 40 20 90 120 150 180 210 240 270 300 330 Input Voltage (V)

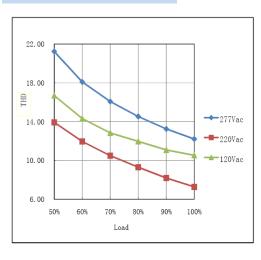
#### Power Factor VS. Load Curve(Model:700mA)



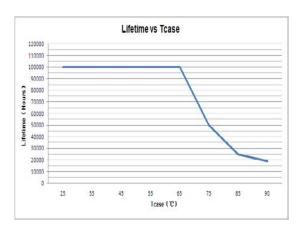
#### Efficiency VS. Load Curve(Model:700mA)



#### THD Curve(Model:700mA)



#### Life Time VS. Tcase (Ref.)



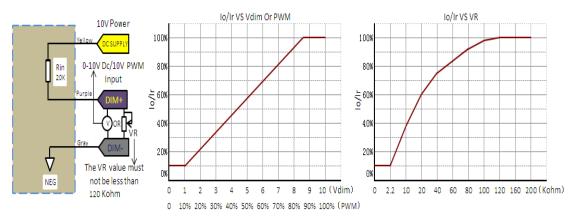
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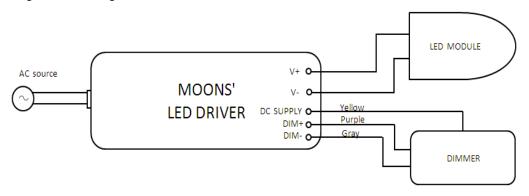
#### Dimming function description:

- 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 120 Kohm.

#### Dimming module diagram and dimming curve:



#### Dimming connection diagram:



#### Notes:

- 1.lo 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)

Diffining Control module 1 draineter (On Secondary Stac)								
Parameter	Min.	Тур.	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					

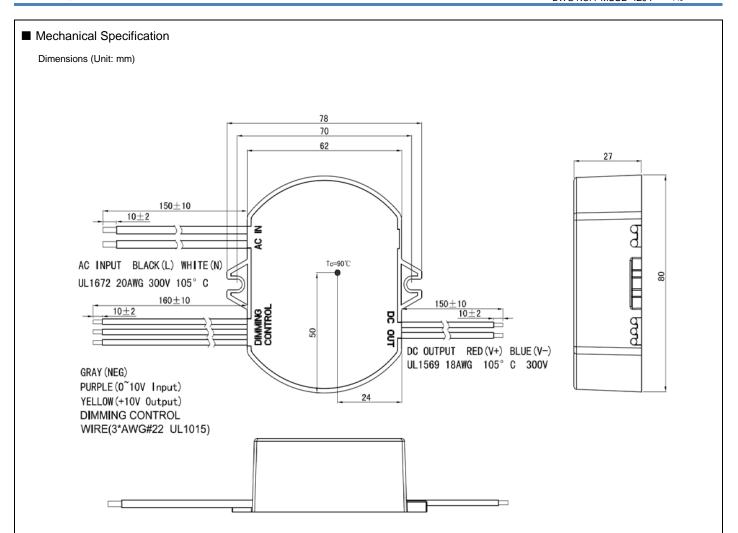
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#### RoHS Compliance:

Our products comply with the European Directive 2002/95/EC, calling for the elimination of lead and other hazardous substances from electronic products.

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