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TOTAL NO. OF PAGES : (INCLUSIVE THIS PAGE)



SHANGHAI MOONS' AUTOMATION CONTROL CO.LTD

SPECIFICATIONS FOR APPROVAL

MODEL:

MU096I210AQI12

CUSTOMER :

CUSTOMER P/N :

DATE:

2016.05.16

	CUSTOME	ER'S APPRO	VAL ITEMS	
ITEM 1	SPECIFICAT	IONS(MSSD-54	83 A0)	4 Pages
	CUSTOME	R'S APPROV	AL STAMP	
		SHANGHAI R&D DEP		
	APPD.	СНК.	DWG.	

LED Driver 96W Intelligent LED Driver Compact Series

MOONS'

<u>38.6±1</u> _31.6±1

Features:

Model MU096I210AQI12

Compliant with Class 2 Power supply safety standards

Support isolated 0~10V dimming

1 LED channel, 100% dimming output current can be set to from 200mA to 2100mA

Constant power maximum is 96W

Normal life time is 50000 hours (at the case's temperature of 70° C)

Soft light dimming range 0.1%~100%

For linear dimming curve, the minimum dimming level is 0.1%

For logarithmic dimming curve, the minimum dimming level is 0.1%

Protection compliant with IP20

5-year warranty

Electrical Specification:

Rated input voltage range	100 - 277 V			
Maximum input voltage range	90 - 305 V			
Input voltage frequency	50 / 60 HZ			
Input Power (230V,50HZ)	113W			
Leakage current	<0.75mA			
Output voltage range	34 - 48 V			
Efficiency typical value (230V,50HZ,full loaded)	1)) 85 %			<u> </u>
Power factor (230V,50HZ,full loaded ①)	>0.95			
Stand-by power consumption	<0.5W			
THD(230V,50HZ,full loaded ①)	<13%	- ERI	0 0	
Start-up time (230V,50HZ,full loaded)	<1 S			
Start-up time (120V,50HZ,full loaded)	<1 S			
The maximum setup current precision	$\pm 5\%$		149. 7	-
Ripple current (full loaded)	$\pm 15\%$			
Input inrush current	<65A			
Dimming range	0.1 -100%			
Withstand Voltage I/P-O/P	3750 V	Ľ	2-8/32UNG	
Withstand Voltage I/P-FG	1875 V		50.8	61
Withstand Voltage O/P-FG	500V			
Surge L/N-earth, L-N	2KV,1KV	0		
Operating Humidity	20~90%RH, non-condensing			
Storage Humidity	5%-95%RH, non-condensing			
Ambient Temperature	-25…52 ℃			
Case Temperature	87 °C			
Weight	520g			
Reference dimension	178.8×83.4×31.6			
① Load:48V*2000mA		-	178.8±0.5	

Standard:

UL8750,UL1310,	EN61000-4-2	EN61000-4-11
EN61347-1,EN61347-2-13	EN61000-4-3	EN61547
EN55015	EN61000-4-4	
FCC Part 15 Class B	EN61000-4-5	
EN61000-3-2	EN61000-4-6	
EN61000-3-3	EN61000-4-8	

SHANGHAI MOONS' AUTOMATION CONTROL CO., LTD Tel:+86(0)21 52634688 Fax:+86(0)21-52634098 info@moons.com.cn www.moonsindustries.com/Products/LED_Drive**rs**/

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LED Driver 96W Intelligent LED Driver Compact Series



Functions

MCS technology

Connect Smartkey to the driver through MCS(Multifunctional Configuration Settings) ports. With MOONS' Configurator software, you can set the MAX current of the driver(each step is 1 mA), dimming curve type, etc. Please refer to specification of Smartkey to get specific information.

Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC(1). When the temperature exceeds the point which can be set by Smartkey, the output current can be decreased automatically, but not less than 25%.

Constant Output Power

The driver can satisfy the curve of constant output power within a large range of output current and voltage.

• Protection

Thermal Protection

When the temperature of the inside PCB exceeds 110° C, output current will be decreased to 50%. And it cannot recover until the temperture drops to 70° C.

Short-circuit Protection

Once the output short-circuits, the output will be cut off automatically. Then the driver will try to restart every 10s.

No-load Protection

The driver operating with no load will not be damaged, and it will try to restart every 10s. So the driver supports hot plugin.

Over-Power Protection

If the total power exceeds 100W, the output current of each channel will decrease to 50%.

Online Update

Connect Smartkey to PC through a USB port, then connect Smartkey to the driver correctly to update. Please refer to the specification of Smartkey.

• Daisy-Chain

0-10V dimming ports has 2 groups of 0-10V+ and 0-10V-, which support daisy-chain.

$\textcircled{1}\label{eq:rescaled}$ Recommended manufacture and type of the NTC

Manufacture: Thinking

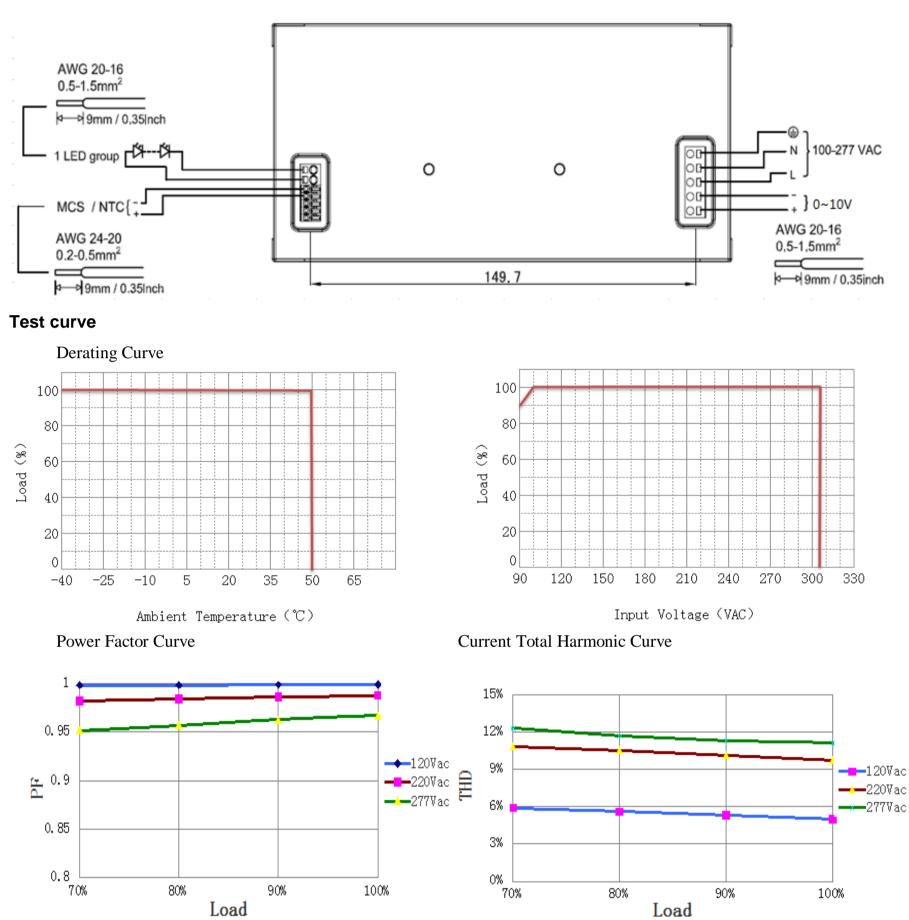
Type: TSM2A473J409ARZA(SMD) \ VISHAY NTCS0805e4473JXT \ MURATA NCP21WB473J03RA

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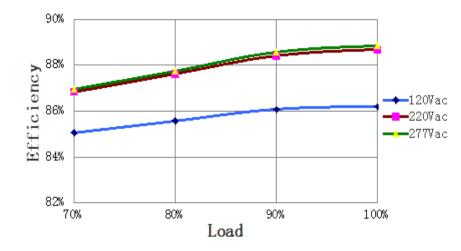


LED Driver 96W Intelligent LED Driver Compact Series





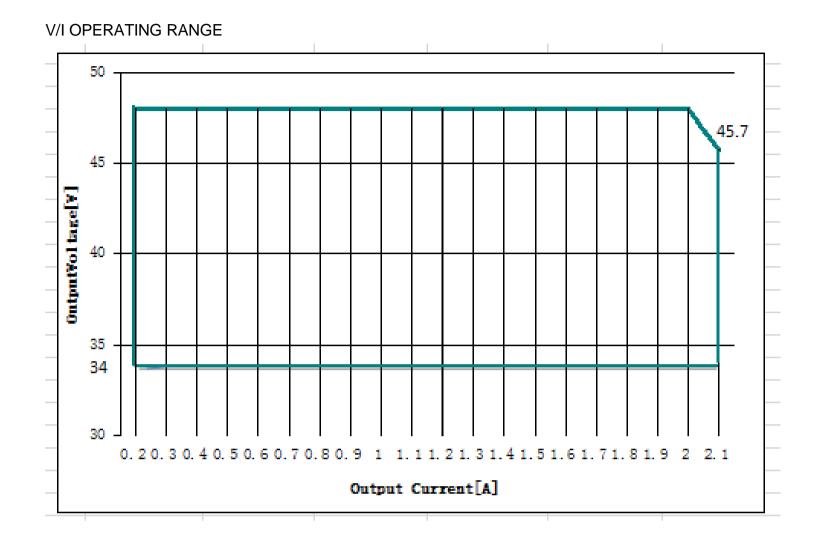
Efficiency Curve

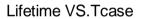


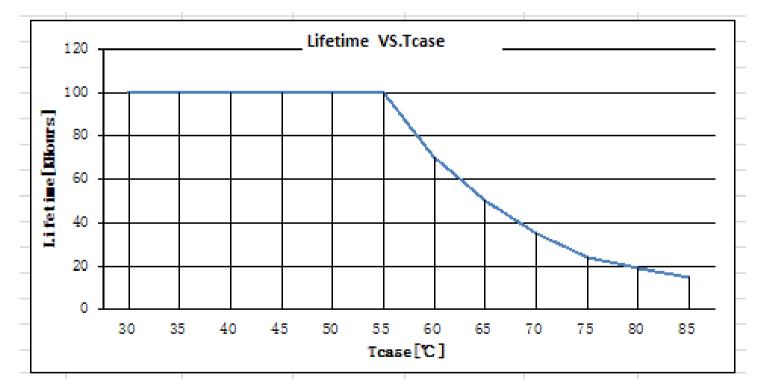
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Test curve







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