

MOONS'	RELEASE DEPARTMENT:	PAGE:
	R&D	1 of 6
TITLE: MU096I210AQI62 SPECIFICATIONS		REVISION: A1

oc No.: MSSD-A6192 A1

## LED DRIVER SPECIFICATIONS

Part Description: Input: 100AC~277VAC,

Customer's Part Number:

MOONS' Part Number: **MU096I210AQI62**

**Customer:CELEX-LED**

<b>Company:</b>  <b>Department:</b>  <b>Approved by:</b>  <b>Date:</b>
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**EDITED:**

**DATE:**

**CHECKED:**

**DATE:**

**STANDARD:**

**DATE:**

**APPROVED:**

**DATE:**

**SHANGHAI MOONS' AUTOMATION CONTROL Co., LTD.**



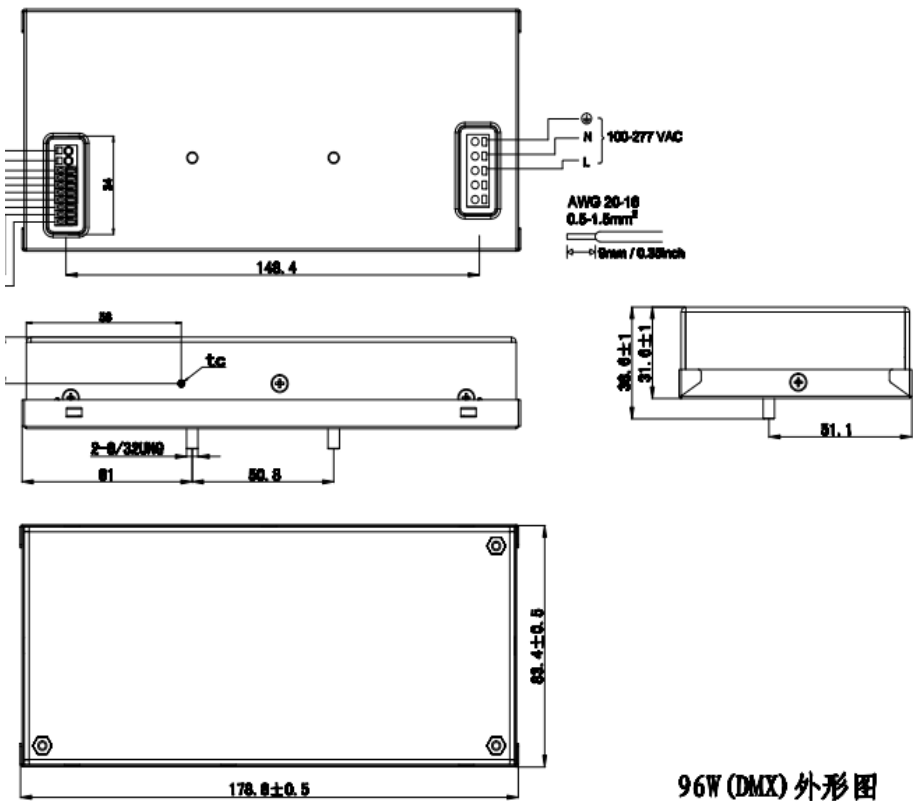
**Features:**

- Model MU096I210AQI62
- Compliant with Class 2 Power supply safety standards
- DMX/RDM constant current LED driver
- 1 LED channel, output current can be changed from 200mA to 2100mA
- Constant power maximum is 96W
- Normal life time is 50000 hours （at the case's temperature of 70℃）
- Dimming range 0.1%~100%
- Protection compliant with IP20
- 5-year warranty

**Electrical Specification:**

Rated ACinput voltage range	100 - 277 V
Rated DCinput voltage range	130 - 387 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
Output current range	200 - 2100 mA
Efficiency typical value （230V,50HZ,full loaded①）	85 %
Power factor （230V,50HZ,full loaded①）	>0.95
Stand-by power consumption	<0.5W
THD(230V,50HZ,full loaded①）	<13%
Start-up time （230V,50HZ,full loaded）	<1S
Start-up time （120V,50HZ,full loaded）	<1S
The maximum setup current precision	± 5%
Ripple current (full loaded)	± 15%
Input inrush current	<65A@<6mS
Dimming range	0.1 -100%
Withstand Voltage I/P-O/P	3750 V
Withstand Voltage I/P-FG	1875 V
Withstand Voltage O/P-FG	500V
Surge L/N-earth, L-N	2KV,1KV
Operating Humidity	20~90%RH, non-condensing
Storage Humidity	5%-95%RH, non-condensing
Ambient Temperature	-25...52℃
Case Temperature	87℃
Weight	520g
Reference dimension	178.8×83.4×31.6mm

① Load:48V\*2000mA



**Standard:**

UL8750,UL1310,	EN61000-4-2	EN61000-4-11
EN61347-1,EN61347-2-13	EN61000-4-3	EN61547
EN55015	EN61000-4-4	IEC62384
FCC Part 15 Class B	EN61000-4-5	
EN61000-3-2	EN61000-4-6	
EN61000-3-3	EN61000-4-8	

## Functions

### • DMX/RDM

DMX\_IN+, DMX\_IN-, Shield;DMX\_OUT+, DMX\_OUT-, Shield are the interfaces of DMX/RDM,suport daisy-chain,auto-addressing .

### • Set the Current

With the help of our Smartkey and DMX Configuarator, you can set the current of the driver, each step is 1 mA.  
Please refer to specification of Smartkey.

### • Temperature Detection

In order to protect the LED, the temperature of LED is detected by a NTC<sup>①</sup>. 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℃, output current will be decreased to 50%. And it cannot recover until the temperture drops to 70℃.

#### 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 99W, 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.

① Recommended manufacture and type of the NTC

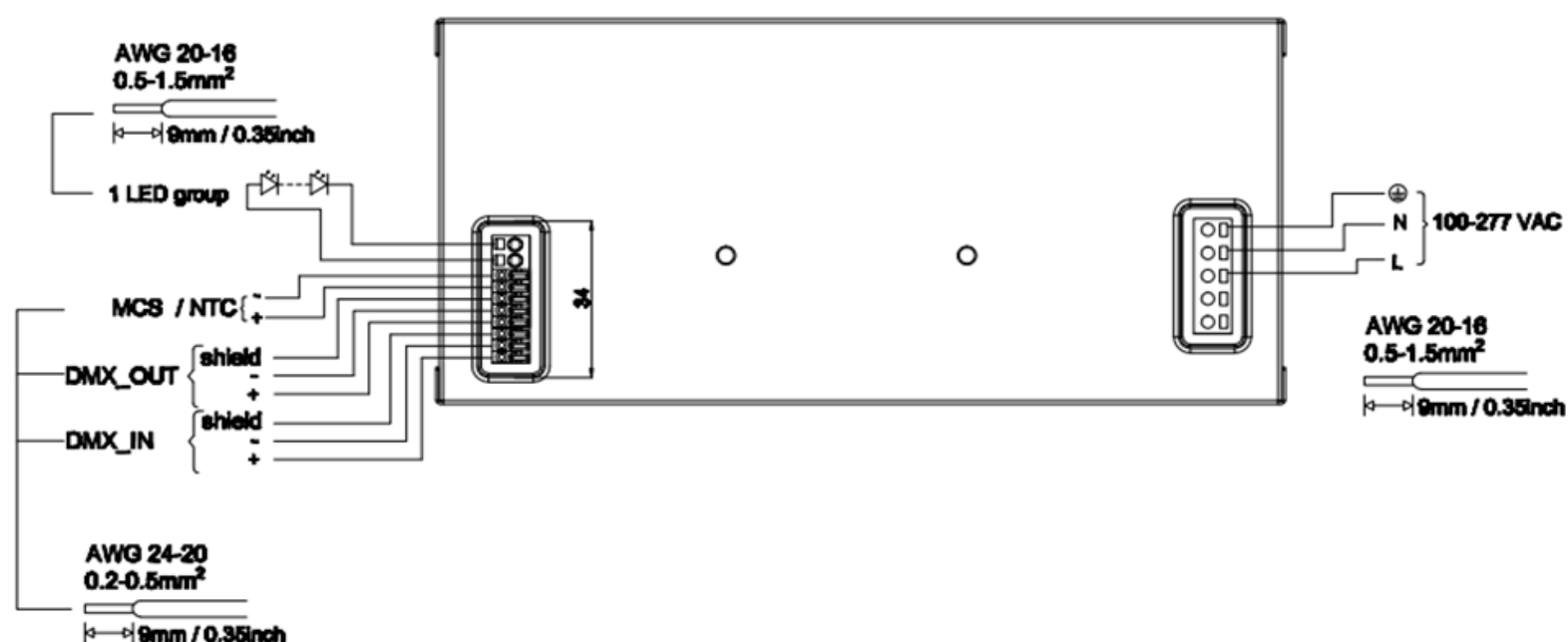
Manufacture: Thinking

Type: TSM2A473J409ARZA(SMD)

②

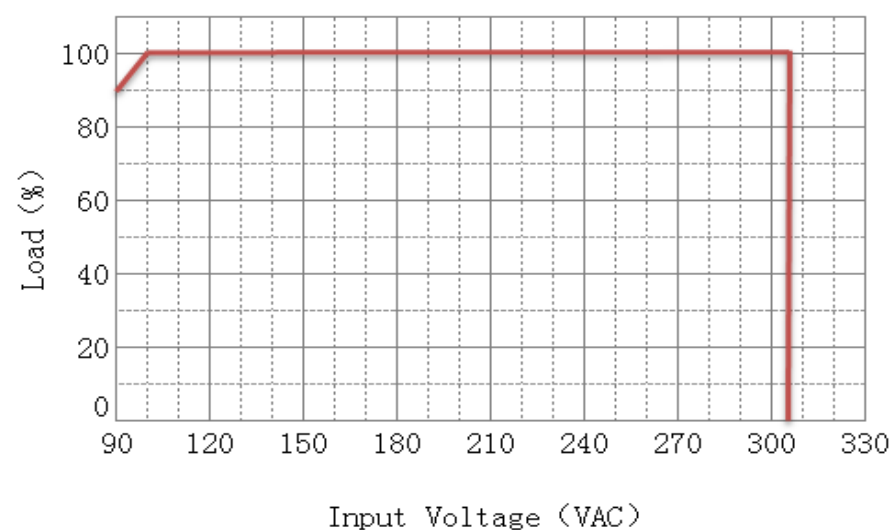
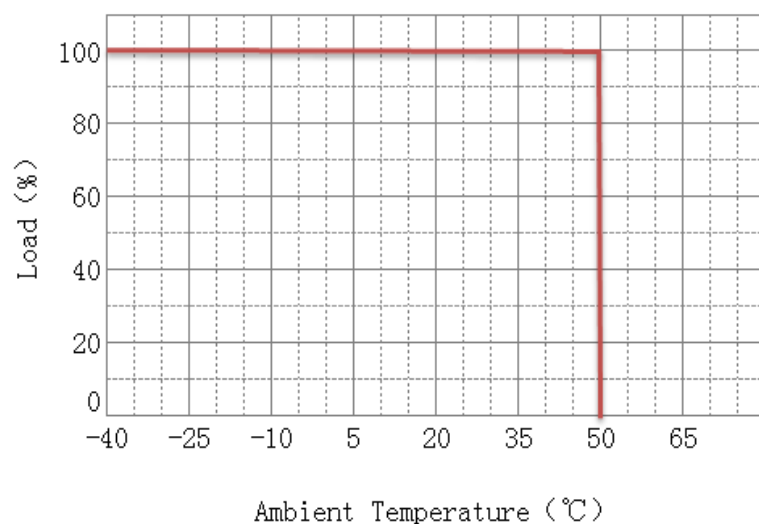
Dimmer Compatibility List	Dimmer Manufacturer	Dimmer Model NO.
	Traxon Technologies	Traxon LED Butler S2
	GODDARD DESIGN CO.	DMXter4 RDM
	Swisson	Swisson XMT-350
	ADJ products	ADJ RGBW4WIR controller
	helvar	helvar 920

## Ports

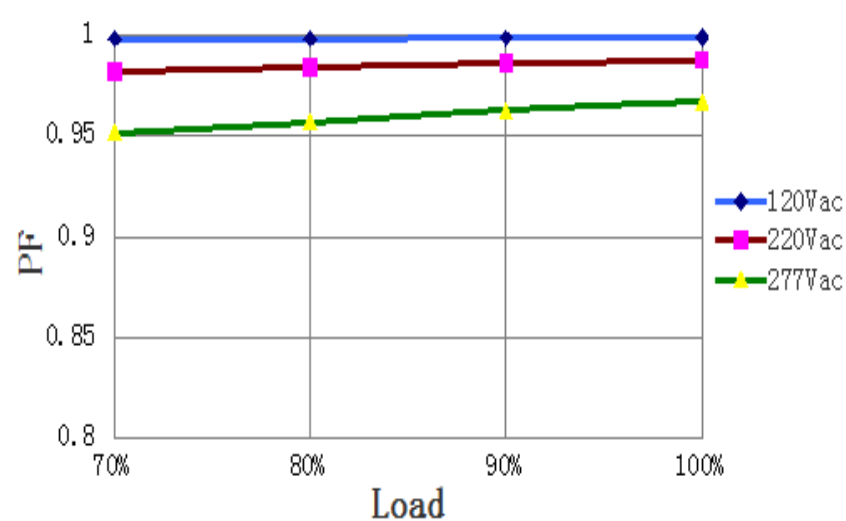


## Test curve

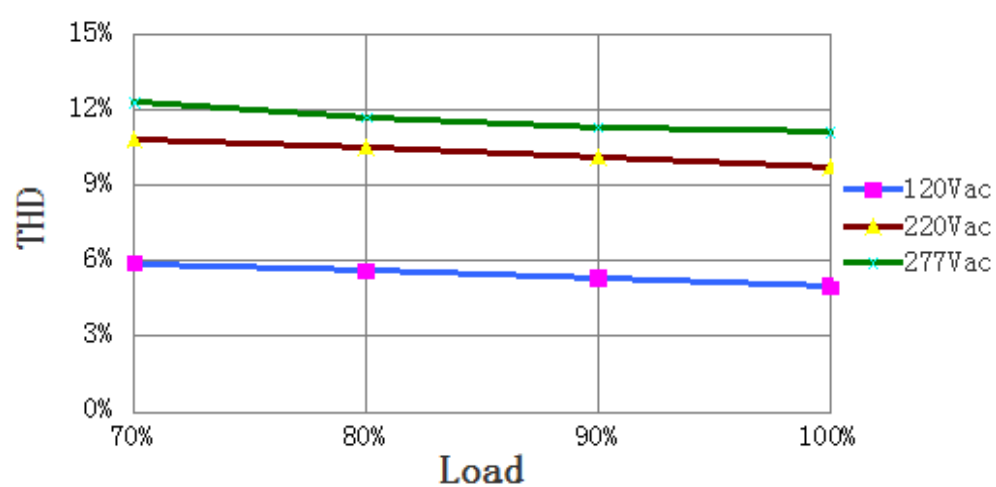
Derating Curve



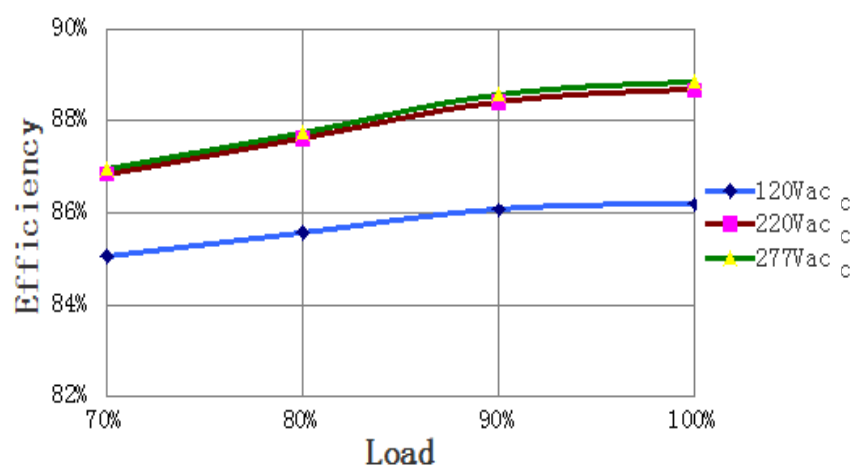
Power Factor Curve



Current Total Harmonic Curve

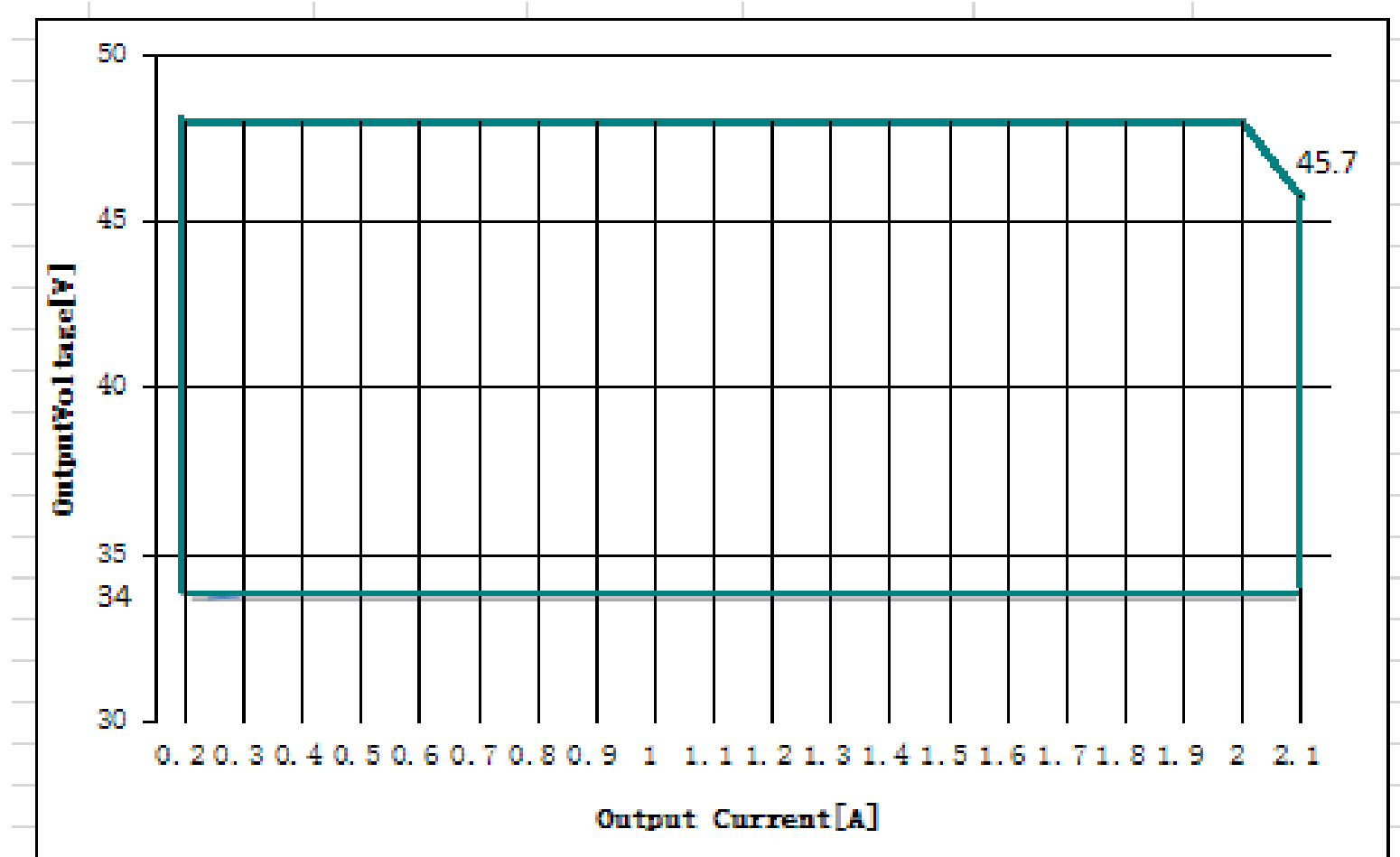


Efficiency Curve



**Test curve**

V/I OPERATING RANGE



Lifetime VS.Tcase

