KI-XG-DMXW Series 40W

Whole Family: KI-0401A2-XG-DMXW (XG=1/2/3/4G) [40W 60W 100W 200W]

CE IP20 SELV RoHS Reach NFC



Features

Output Type:	Constant Current
Input Range:	120-277VAC
Efficiency:	Up to 86.9%
Protections:	Short circuit / Over load / Over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	IP20 can be used indoor. (EU) Full plastic protection housing, for dry and damp locations. (US)
Design features:	1. The maximum output current of each channel can be adjusted individually via NFC, while the maximum output current of each channel is adjusted simultaneously through the switches. 2. The address can be set from 1 to 512 via NFC 3. The current and voltage of each channel can be read by the RDM tester. 4. The real-time temperature and operating hours of the driver can be read by the RDM tester. 5. When modifying data via NFC, there is no need to turn off and restart the power.
Dimming function:	DMX dimming
Dimming range:	1%-100% dimming depth 1%
Min load	Min load is 10%
Application:	Suitable for LED lighting and moving sign applications
Warranty:	5 years warranty

DMX Dimming Driver - Constant current output - KI-XG-DMXW Series 40W

Specification

Model		KI-0401A2-XG-DMXW														
Certificate		CE / SELV / RoHS / Reach														
Output	NFC current range	120mA-1200mA														
	Dip Rated current(A)	0.5	0.55	0.6	0.65	0.7	0.75	0.8	0.85	0.9	0.95	1	1.05	1.1	1.15	1.2	NFC
	DIP Code																
	DC Voltage range(V)	12~36													12~35	12~33	
	Current Ripple	＜2.0%														
	Overshoot Current	＜2.0%														
	Current Tolerance	±2.5%														
	No Load Voltage	≤45V(Max)														
	Rated power	40W														
	Load Regulation	＜0.1%														
	Line Regulation	＜0.1%														
Input	Voltage Range	120-277VAC														
	Frequency Range	50 / 60Hz														
	Power Factor @ full load	＞0.99@120VAC ＞0.97@230VAC ＞0.94@277VAC														
	THD(Typ.) @ full load	≤6%@120VAC ≤9.6%@230VAC ≤8.4%@277VAC														
	Efficiency @ full load	＞86.1%@120VAC ＞86.9%@230VAC ＞86.5%@277VAC														
	AC Current (Max.)	0.42A														
	Inrush Current (Typ.)	1.84A,53us @50%Ipeak 120VAC 3.76,41us @50%Ipeak 230VAC 4.48A,42us @50%Ipeak 277VAC														
	Leakage current	<0.5mA														
Protection	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed.														
	Over Load	105%~110% The output current is reduced to 25 percent of the rated output current, recovers automatically after rebooting the power.														
	Over temperature	Ambient temperature over 50℃±5℃, output reduce to 50%; Ambient temperature over 60℃±5℃, output off; When the temperature is reduced to 45℃±5℃, the output returns to 100%.														
Environment	Working TEMP.	-40~+50℃ (see below derating curve)														
	Working Humidity	20 - 90%RH non-condensing														
	Storage TEM.,Humidity	-40 - +80℃,10 - 95% RH non-condensing														
	TEMP.coefficient	±0.03%/℃(0 - 50℃)														
	Vibration	10 ~ 500Hz, 2G 12 minutes/cycle, X Y Z axis 72 minutes each														
Safety & EMC	Safety standards	EN61347-1; EN61347-2-13 UL8750; CAN/CSA-C22.2 No.250.13														
	Withstand voltage	I/P-O/P:3.75KVAC (EU) I/P-O/P:1.88KVAC (US)														
	Isolation resistance	I/P-O/P:100MΩ / 500VDC / 25℃ / 70% RH														

	Surge Immunity Test	AC Power Line:Differential Mode 2 kV
	EMC Immunity	EN61547; EN61000-4-2,3,4,5,6,11 FCC/ICES do not request this test.
	EMC Emission	EN55015; EN61000-3-2,3 FCC Part 15 Subpart B;
Others	Net Weight	/
	Dimension	171.5*54*20mm (L*W*H)
	Packing	250*190*135mm 20pcs/CTN
Notes	1. All parameters NOT specially mentioned are measured at rated load, maximum output current(1200mA) and 25℃ of ambient temperature. 2. Tolerance: includes set up tolerance and load regulation. 3. Except for the efficiency test, which is tested with the load instrument, the rest data are tested with lamps.	

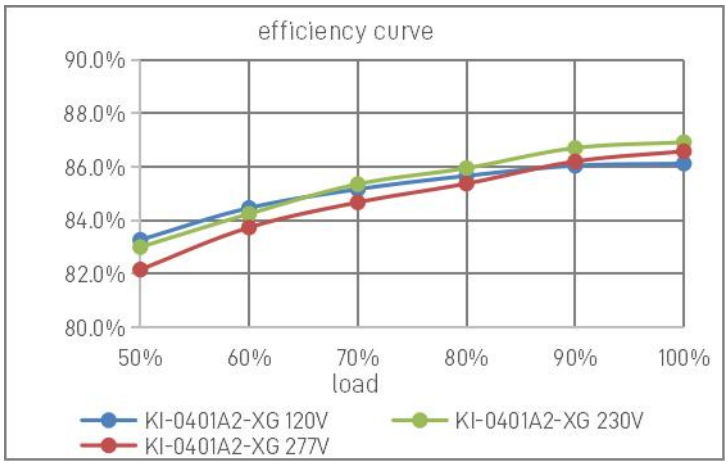
MCB recommendation

When the input voltage is 120Vac, the number of LED Driver matched by circuit breakers is as follows:		
MCB Type	Level	The number of LED Driver
C type	10A	15
	13A	19
	16A	24
	20A	30
	25A	38
When the input voltage is 230Vac, the number of LED Driver matched by circuit breakers is as follows:		
MCB Type	Level	The number of LED Driver
C type	10A	28
	13A	37
	16A	46
	20A	57
	25A	72
When the input voltage is 277Vac, the number of LED Driver matched by circuit breakers is as follows:		
MCB Type	Level	The number of LED Driver
C type	10A	35
	13A	46
	16A	57
	20A	71
	25A	89

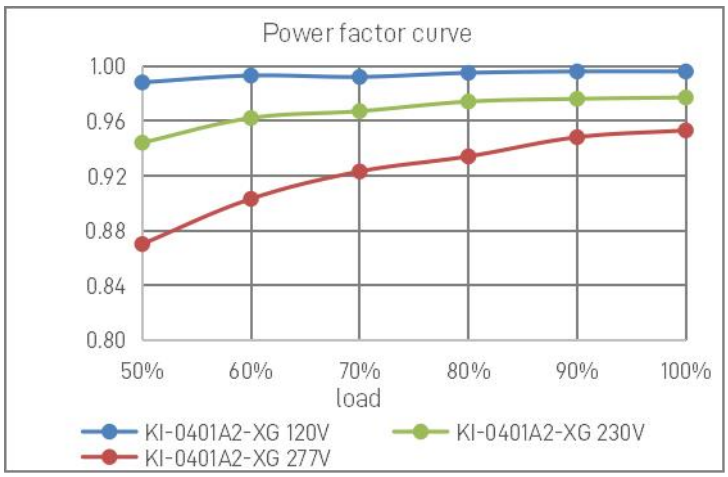
Note:

1. The above quantities of the led drivers connected on the Type C is recommended base on the maximum ambient temperature is 50 °C.
2. The breaker should be selected according to the input rated voltage, input rated current, ambient temperature, and trip characteristic curve.

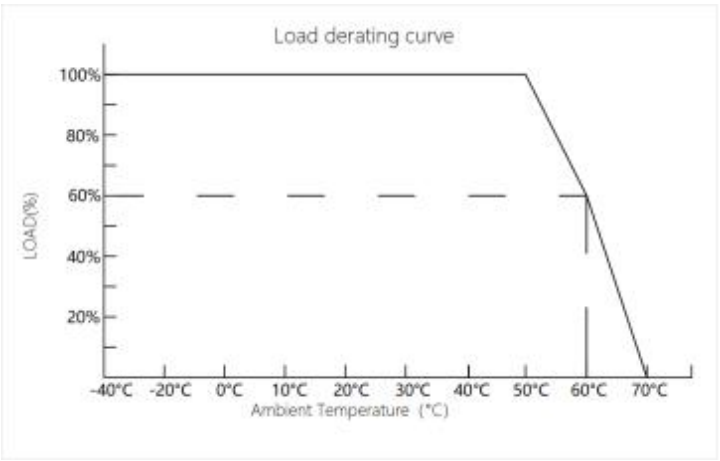
Efficiency Curve (efficiency vs output load)



Power Factor Curve (power factor vs output load)

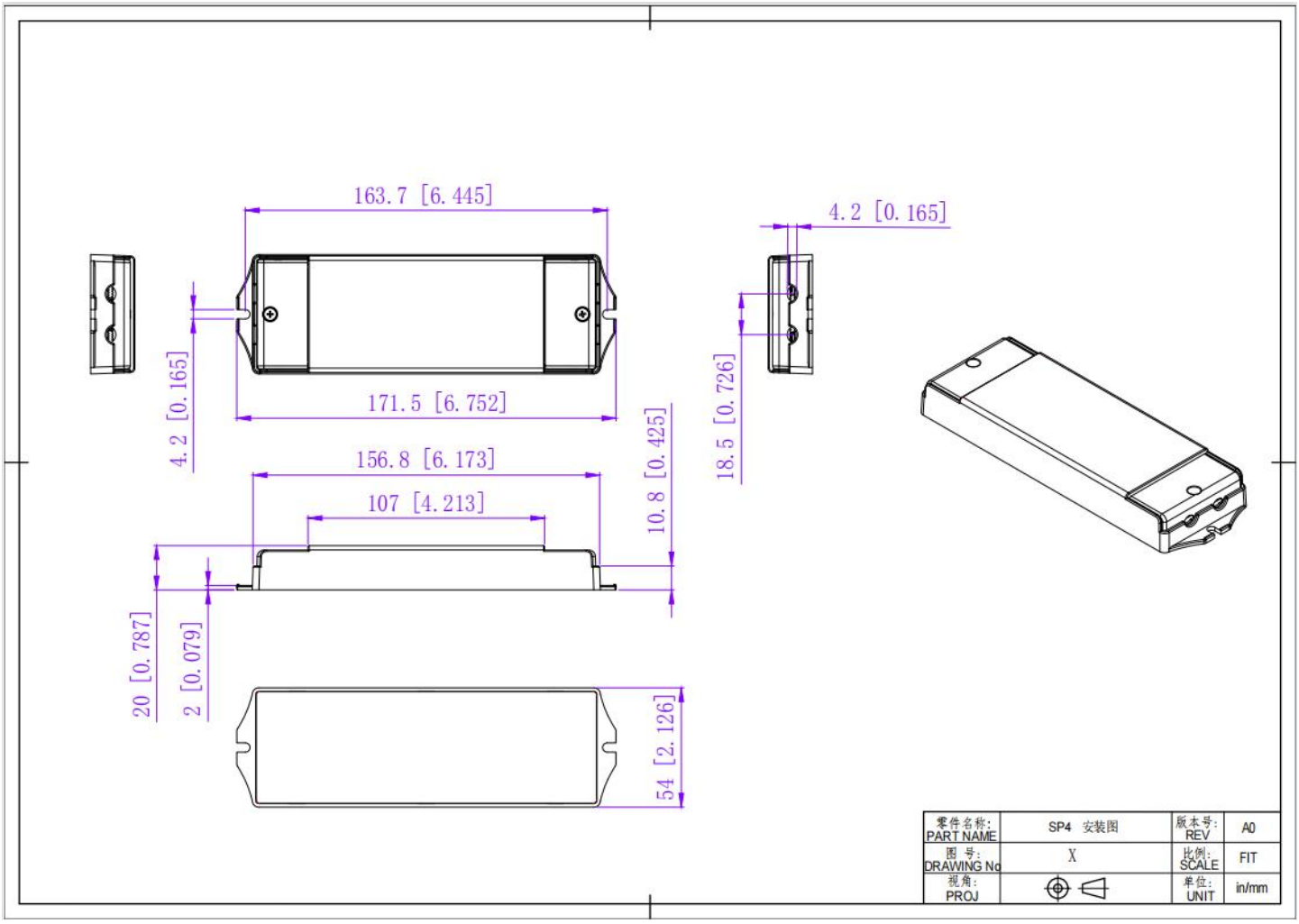


Derating Curve (Output Currnet VS Ambient TEMP)



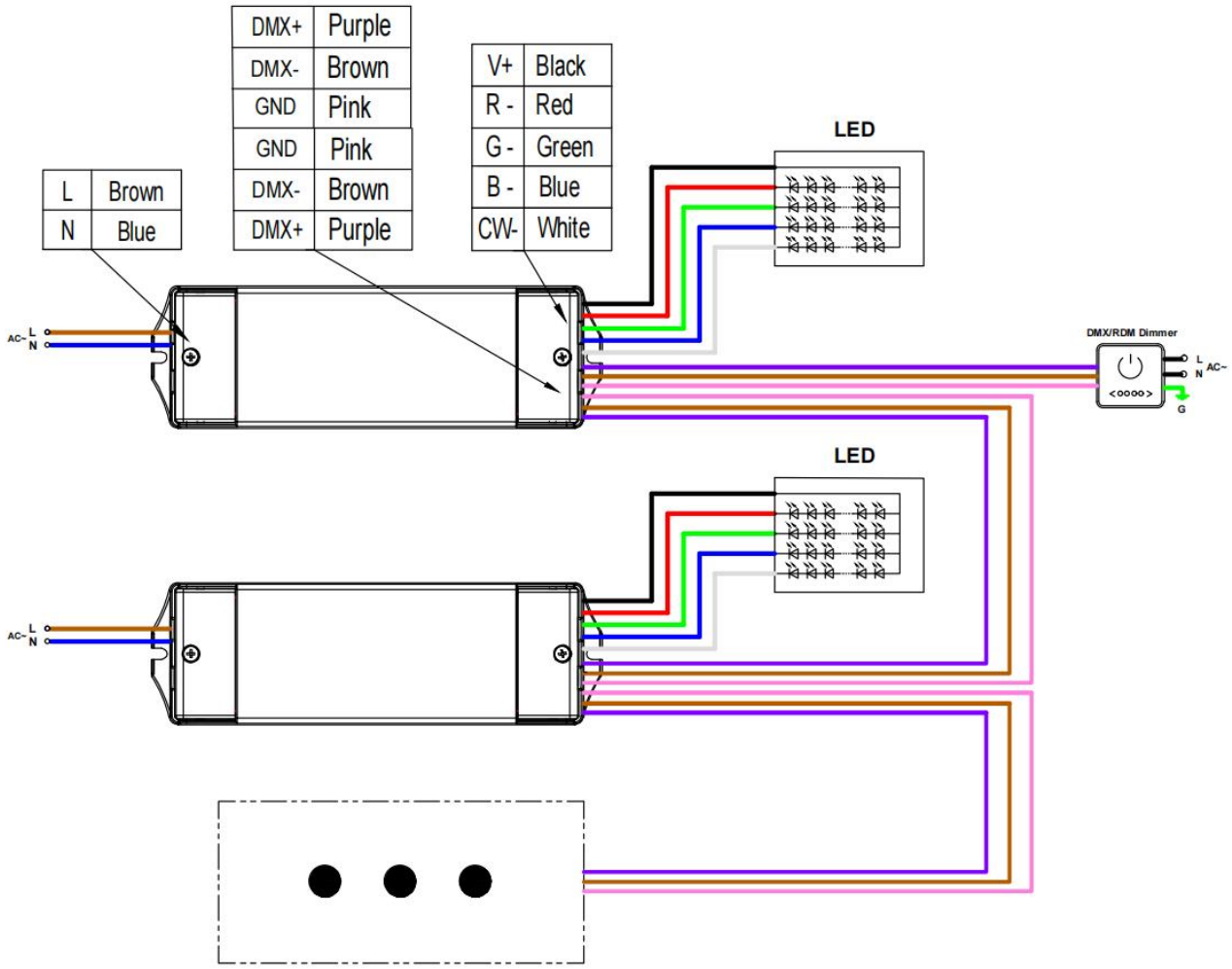
1. To extend their life, please refer to the Derating Curve and derate according to the temperature.
2. The output current of the LED driver should be selected according to the rated current of the lamp and the ambient temperature. Normally, we recommend the power supply to reserve a certain amount of load to extend LED driver's life .

Mechanical Specification



SP4	
Input wire	0.75-2.0mm² (18-16AWG)
Output wire	0.2-1.5mm² (24-16AWG)
Dimming wire	0.2-1.5mm² (24-16AWG)
Remark: Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.	

Connection Diagram



Warm tip:

Please connect the lamp first and then connect the AC line,otherwise the lamp will be damaged !

NFC function

For detailed operation, please refer to ProNFC app manual that request from the sales staff of Shengchang / SCPOWER / SURETRON.

1. Scan below QR code to download the ProNFC APP

Download Methods for ios device:

ios users can download through the QRcode link. (Figure 1)

Search for the app name ProNFC in the App Store. (Figure 2)

Figure 1

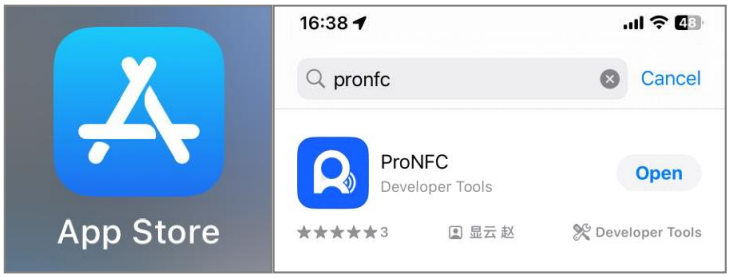


Figure 2

Download Methods for Android device:

Android users can scan the ProNFC download QR code. (Figure 3)

Figure 3

Open the ProNFC APP, Click on the "Read and Write". (Figure 4)

Use the phone's NFC sensing area close to the driver's NFC marking area. (Figure 5)

Wait for the successful reading. (Figure 6).

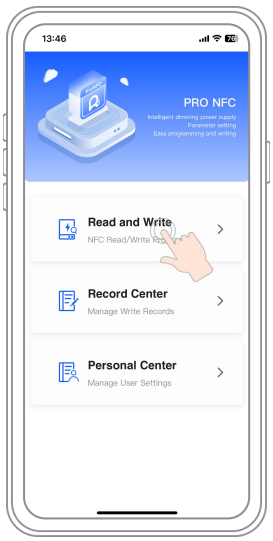


Figure 4

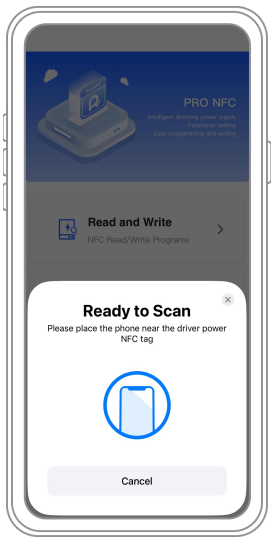


Figure 5

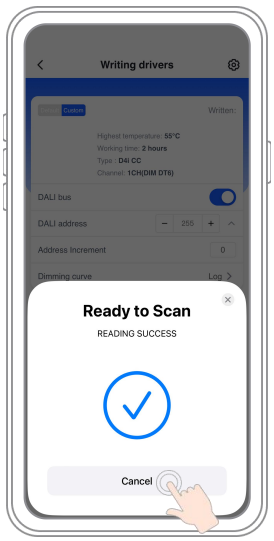


Figure 6

2. The DMX address can be set from 1 to 512. (Figure 7)

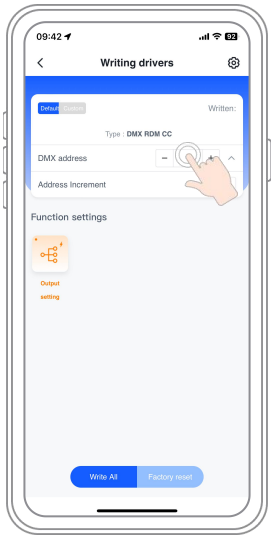


Figure 7

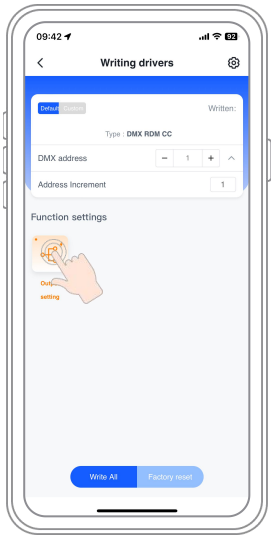


Figure 8

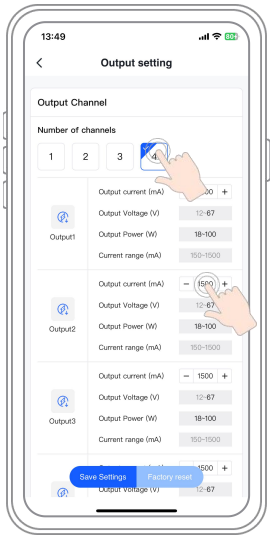


Figure 9

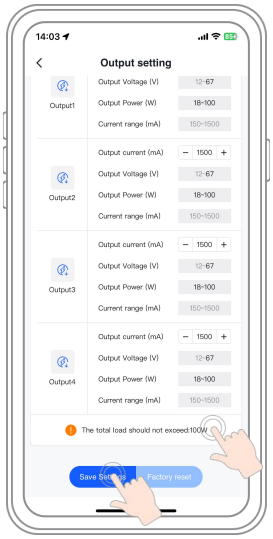


Figure 10

3. Click "Output Setting" to set the current and display the corresponding voltage. (Figure 8)

Click to switch the channel selection while the number of multiple output currents below will also change synchronously. (Figure 9)

Click the output current input box to set the output current value with reference to the output voltage range below. (Figure 9)

Warm tips:

NFC setting current must not exceed the current range of the LED driver. (120mA~1200mA)

Load voltage cannot exceed the corresponding voltage range. (12~36V)

4. Slide to the bottom to see the total power tips of the output current, according to the total power tips for the current output settings. Save the settings and return to the function homepage. (Figure 10)

DMX512 address setting Operation

1. The default address for SC DMX driver is 001.
2. Settings device:



RDM

3. For detailed operation, please refer to RDM device instruction manual.

Instructions

1. This driver should be installed by qualified and professional person.
2. Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
3. Ensure that wiring is correct before test in order to avoid light and power supply damage.
4. If driver Cannot work normally, don't maintain privately.

Have any questions, please contact Zhuhai Shengchang.

Please visit our website or contact us for more information! www.scpower.net.cn/en