

### Specification acknowledgment

CUSTOMER NAME : \_\_\_\_\_

CUSTOMER SPEC.NO. : \_\_\_\_\_

DESCRIPTION : 7W POWER SUPPLY

VENDOR PART NO. : KR-WGK-M007W270-FDC

DATE : 2022-05-30

PLEASE RETURN TO US COPY OF "FOR APPROVAL"  
WITH YOUR APPROVED SIGNATURES

REPORTED BY	CHECKED BY	APPROVED BY

REPORTED BY	CHECKED BY	APPROVED BY

## (Catalog)

1、Description .....	2
2. Electrical Characteristics .....	2
2.1 Input Characteristics .....	2
2.2 Output Characteristics .....	3
3. Other characteristics .....	4
4. Safety and EMC standards .....	4
5. Product structure and dimension .....	5
6. Product life curves .....	6
7.Environmental requirements .....	6
8.Nameplate .....	6
9. Note .....	7
10. Packaging, transportation, and storage .....	7
10.1Packaging .....	7
10.2Transportation .....	7
10.3.Storage .....	7

**MODEL: KR-FGK-F007W270-FDC**

**一. Revision Record:**

Revision	Date	Modify Item	Modify Reason	Prepared	Approved
Rev:A0	2022-05-30				

**MODEL: KR-WGK-M007W270-FDC**

**1. Description**

This document defines KR-WGK-M007W270-FDC special power supply for outdoor waterproof lamps, which has OSP protection functions and can protect the lamps to work properly.

The power supply is: Aluminium case type.

**2. Electrical Characteristics**

**2.1 Input Characteristics**

Item	Minimum	Typical	Maximum	Unit	Remark
Rated Input voltage	110	/	240	Vac	
AC Input range	90	/	264	Vac	
Input current ±10%	/	/	180	mAac	Input: 110Vac 50/60HZ Output: 7*1W LED
InputPower ±0.5W	7.8	8.3	8.8	W	Input: 100-264 50/60HZ Output: 7*1W LED
Input frequency	47	50	63	Hz	
Power factor	≥0.45	≥0.5	≥0.55		Input: 100-264 50/60HZ Output: 7*1W LED
Harmonic	/	/	/	%	Input: 100-264 50/60HZ Output: 7*1W LED
Surge	/	/	15	A	Input: 264V 50/60HZ Output: 7*1W LED
Standby power consumption	/	/	0.25	W	Input: 264V 50/60HZ Output: No load

## 2.2 Output Characteristics

Item	Minimum	Typical	Maximum	Unit	Remark
Output Power $\pm 0.2W$	6.3	6.5	6.7	W	Within the rated output voltage, the maximum output power is $P_o=V_o \times I_o$
Output voltage	14		24.5	Vdc	Input: 100-264 50/60HZ Output: 7*1W LED
Output Current $\pm 5\%$	256	270	284	mAdc	Input: 100-264 50/60HZ Output: 7*1W LED
Output open circuit voltage	50	55	60	Vdc	No load
Efficiency	79%	80%	81%		@230Vac
	76%	77%	78%		@110Vac
Accuracy of current 电流精度	-5%		+5%		
Output Ripple Voltage (PK-PK)		1%	2%		Full Load
Output Ripple current (PK-PK)		3%	5%		Full Load
Current overshoot			10%		
Start up time		0.6S	1S		@110Vac
		0.4S	0.5S		@230Vac
Linear adjustment rate	-2%		+2%	Full Load	
Load Regulation	-5%		+5%		

### 3. Other characteristics

Item		Minimum	Typical	Maximum	Remark
Protection Function	Over temp protection	140°C	150°C		IC internal temperature
	short circuit protection	Long time short circuit is not damaged, short circuit power < 2W			Burp mode
Life time		30000hours			@230Vac, full load, case temperature 75°C, FIG. 6
MTBF		200, 000hours			@230Vac, full load, case temperature 25°C
Temperature coefficient		-0.03%/°C		+0.03%/°C	Case:0°C~85°C
Case temperature				85°C	
Quality assurance			2years		Case:85°C
Wight			36g		
Size		68mm×32mm×23mm			LxWxH

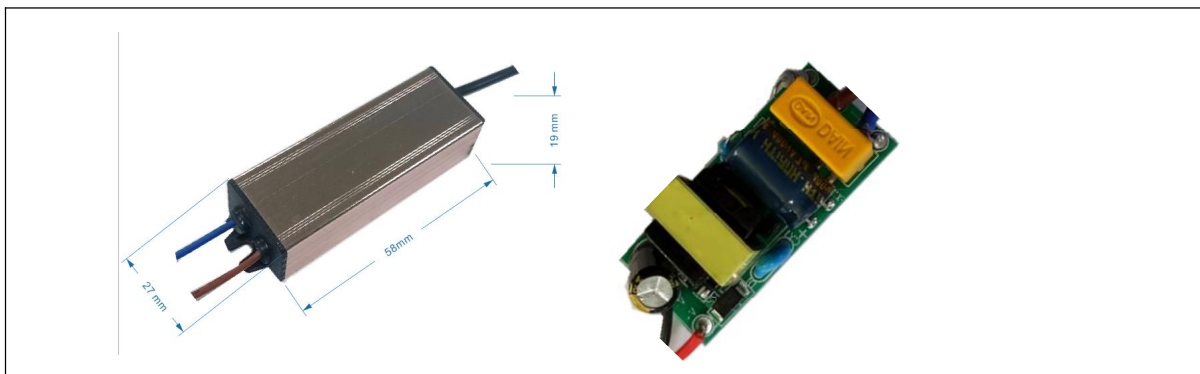
PS:All performance parameters are typical values measured under 25°C conditions, unless otherwise noted

### 4. Safety and EMC standards

Certification	Safety standards	Certification status	Remark
UL/CUL	UL8750	×	
TUV	EN 61347-2-13:2014 EN61347-1:2008+A1:2011+A2:2013 EN62493:2015	×	
SAA	AS/NZS61347.2.13	×	
CCC	GB 19510.14-2009	×	
BIS	IS15885:2012 Part 2 Sec 13	×	

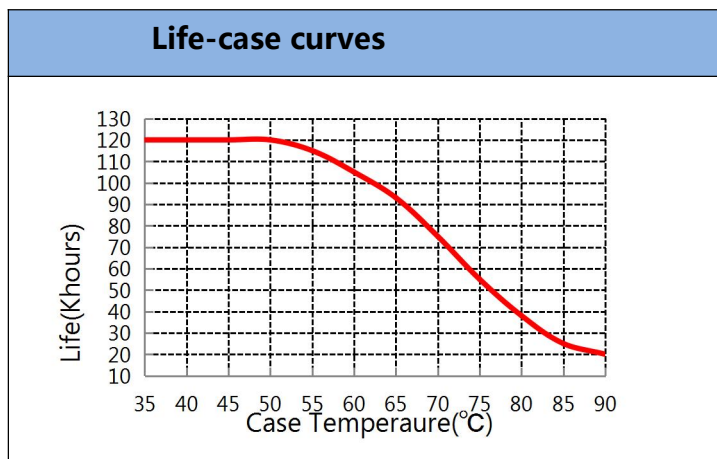
Safety items		Specification	Remark
Dielectric strength	Input to output	500Vac/5mA Max/60s	
	Primary to FG	/	
	Secondary to FG	/	
Insulation resistance	Input to output	/	
Earth resistance		/	
Leakage current		/	
EMI/EMS		Specification	Remark
CE		EN55015:2013+A1:2015	No requirement
RE		EN55015:2013+A1:2015	No requirement
Harmonic		IEC/EN 61000-3-2	No requirement
Lightning surge		IEC/EN61000-4-5	No requirement

## 5. Product structure and dimension



Supply connect	0.5 mm <sup>2</sup> L=350mm PVC RVV wire
DC Connect	0.5mm <sup>2</sup> RED & BLAK electronic wires.
Case	Aluminium 58*27*19mm
Remark	No ROHS products

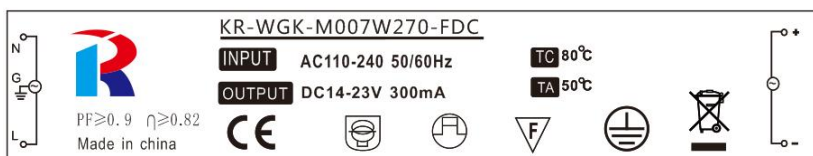
### 6. Product life curves



### 7. Environmental requirements

Item	Minimum	Typical	Maximum	Remark
Operating Temperature	-40°C	25° C	+45°C	
Storage Temperature	-40°C	25° C	+85°C	
Operating Humidity	10%RH		90%RH	
Storage Humidity	5%RH		95%RH	

### 8. Nameplate





## **9. Note**

1. Before installation, carefully confirm the input and output terminals, do not misconnect.
2. Input voltage of this product 100-240 VAC, confirm line voltage before installation.
3. When installing, pay attention to the ventilation of the product.

Do not close the product in a high temperature environment.

When working in a high temperature environment, the life of the power supply will be shortened

## **10. Packaging, transportation, and storage**

### **10.1 Transportation**

Adapt to the transport of vehicles, ships, aircraft, transport should cover shelter, sunscreen, civilized loading and unloading.

### **10.2 Storage**

The product shall be stored in accordance with IEC-60721-2-3;

The storage period of more than 1 year of products to be re-tested, qualified rear can be used.