



■ AC Plug Type

AC plug type	2 pin Euro	2 pin USA	2 Pin China	3 pin UK	2 pin AU	2 pin JP	2 pin KR	2 pin IN	3 pin South Africa	Interchangeable
Shape No.	EU	US	CN	UK	AU	JP	KR	IN	/	yes

Insulation Class	Class I	Class I	Class II
AC inlet type	3 pole IEC320-C6	3 pole IEC320-C14	2 pole IEC320-C8
Shape No.	KRE024MPS-C6	KRE024MPS-C14	KRE024MPS-C8

■ Features

- Universal AC input Full range
- **IEC60601/EN60601/UL60601 Medical Grade**
- 2 pole US, EU, AU/NZ, EK, JP, CN, IN and 3 pole UK plug, Class II power unit
- No load power consumption < 0.1W
- **Medical 2 x MOPP**
- Energy efficiency Level VI
- Comply with EISA 2007 / DoE and NRCan
- Protections: Short circuit / Overload /Over voltage
- Fully enclosed plastic case
- Wide range working temperature

■ Applications

- Medical electronic devices
- Telecommunication devices
- Office facilities
- Industrial & Medical equipment



■ **Description**

KRE024MPS is a highly reliable, 24W wall-mounted, interchangeable and desktop styles single-output industrial & Medical adaptor series. This product is a class II power unit (no FG), and class I power unit (with FG) equipped with standard AC power plug, adopting the input range from 90VAC to 264VAC. The entire medical series supplies different models with output voltages ranging between 4VDC and 48VDC, 0 to 4.0A that can satisfy the demands for various types of medical electronic devices.

■ **Characteristics**

**Input:**

**AC Input Voltage Rating**

100 to 240VAC

**AC Input Voltage Range**

90 to 264VAC

**AC Input Frequency**

47 to 63Hz

**Input Current**

0.66A (RMS) maximum at 120VAC 0.25A (RMS) maximum at 240VAC

**Touch Current**

10uA maximum Medical grade

**Inrush Current (Cold Start at ambient 25° C)**

30A for 120VAC at maximum load  
60A for 240VAC at maximum load

**Input Power Saving**

0.1W maximum at no load

**Output: Efficiency**

Meet energy saving efficiency level VI.

**Hold-up Time**

10mS minimum at 120VAC and maximum load

**Short-Circuit Protection**

Auto restart

**Environmental Temperature**

Operation 0 to +40° C

Non-operation -40 to +85° C

Humidity 10-90% non-condensing

**Emissions**

Complies with FCC Class B Complies with EN55011 Class B

ESD Immunity ± 8kV contact / ± 15kV air

**Immunity**

AN/NZS CISPR22

EN55011

EN60601-1-11 Level EN61000-4-3 Level

EN61000-4-4 Level EN61000-4-5 Level

EN61000-4-6 Level EN61000-4-8 Level

EN61000-4-11 Level EN61000-3-2 Level

EN61000-3-3 Level GB9254+GB1762

**Dielectric Withstand (Hi-pot) Test Primary to Secondary:**

2 x MOPP (4560VACx2)

3500V AC for 1 min., 10mA

Primary to F.G.: 1500V AC for 1 min., 10mA

**DC Output Connector**

2.1 x 5.5mm Center Positive+ Standard or equivalent,

Or see *KRE-connectors-Spec.pdf*

**Output Cable**

1.5 meter (4.92 feet), UL2468, from 24-18AWG guage or equivalent

**Mating Connector**

Equivalent

**Model list 1 and Output Specifications**

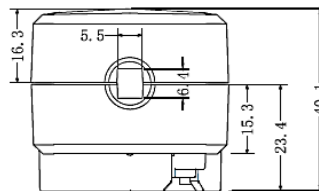
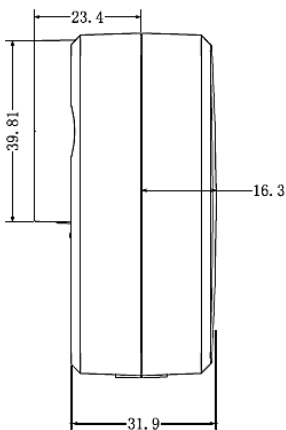
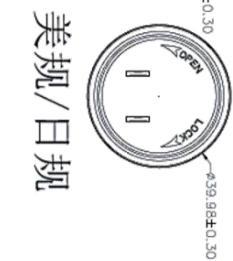
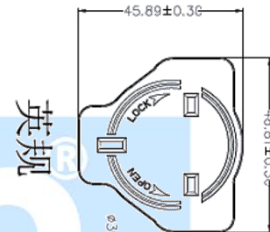
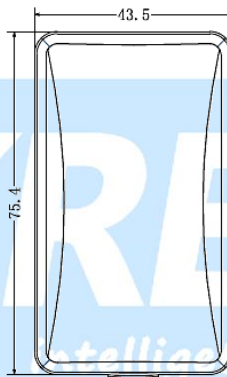
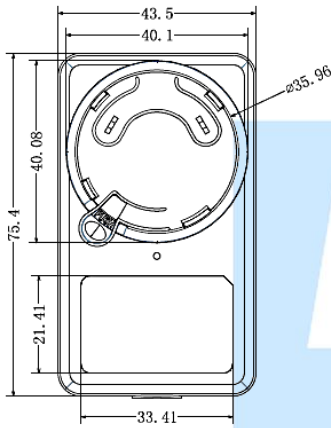
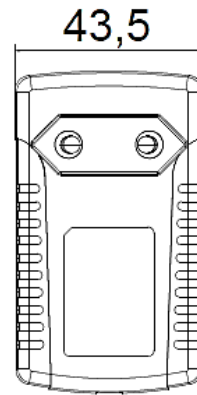
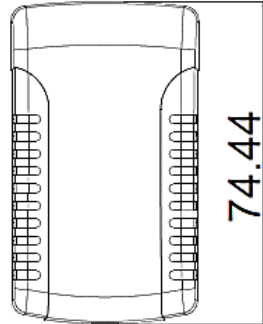
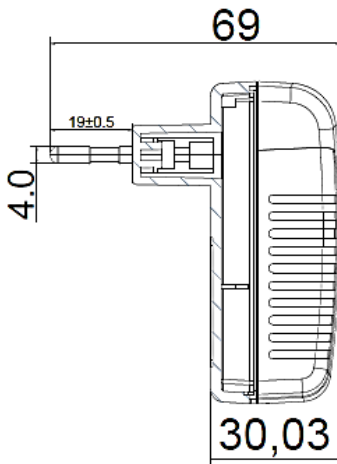
OUTPUT	Voltage(DC)	4-7.5V	7.6-13V	13.1-19V	19.1-30V	30.1-48V
	Current (Max.)	4A	2.66A	1.8A	1.25A	0.7A
	Power (Max.)	21.2W	24W	24W	24W	24W
	Ripple&noise	≤150 mV	≤150 mV	≤200mV	≤200 mV	≤300 mV
	Voltage tolerance	±5%				
	Standby power	< 0.1 W				
INPUT	Voltage Range	100-240VAC				
	Frequency	50-60Hz				
ENVIROMEN T	Operation Temp.	0°C to +40°C				
	Storage Temp.	-20°C to +80°C				
	Operation HUM	10%-90%				
SAFETY	Safety Standards	60601 CB,cULus,FCC, CE, TUV Mark, AU plug report				
Other	MTBF	>50,000 hours at 80%load and 25°C				
	Dimension	US/EU: 76.8X48.0X31.0mm UK: 76.8X50.0X37.0mm AU: 76.8X54.5X39.0mm				
Other	Dimension	90.5X49.0X31.5mm				

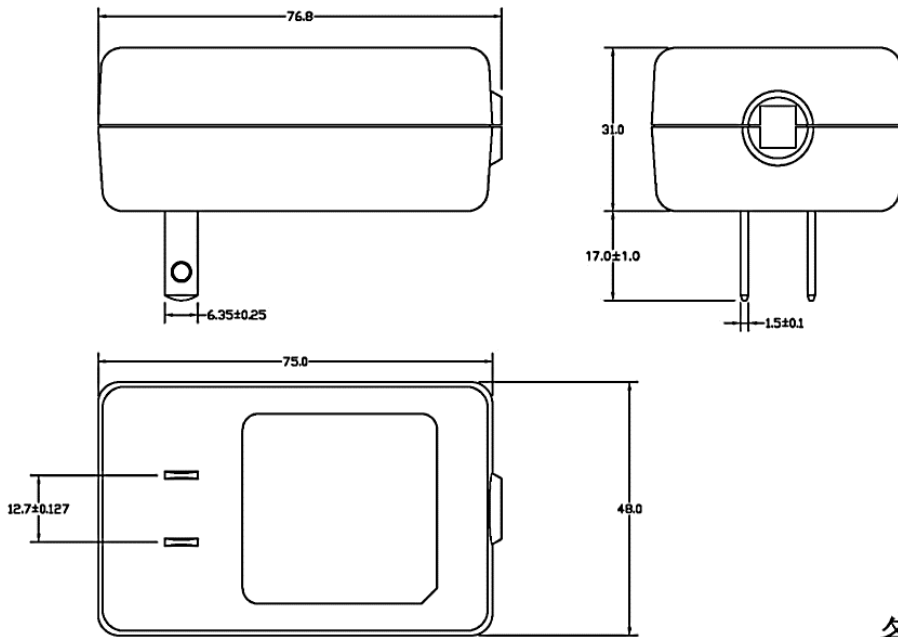
**Model list 2 and Output Specifications**

KRECO P/N (see note)	DC Output Voltage	Load		Output Power	Safety Approvals	Energy Savin g Level	Standards
		Min	Max				
KRE024SPS- xxxxyyyzH or KRE-xxxxyyZ or LY024SPS-xxxxyyyzf	4.5-8.9V	0.01A	3.0A	24W max	UL/CUL/FCC, CE/GS/EMC,UKCA,RCM,KC, ERP/DoE	VI	EN/IEC/UL60601
	9.0- 14.9V	0.01A	2.0A	24W max	UL/CUL/FCC, CE/GS/EMC,UKCA,RCM,KC, ERP/DoE12v2a	VI	EN/IEC/UL60601
	15.0- 24.0V	0.01A	1.33A	24W max	UL/CUL/FCC, CE/GS/EMC,UKCA,RCM,KC, ERP/DoE	VI	EN/IEC/UL60601
	24.1-36V	0.01A	0.85A	24W max	UL/CUL/FCC, CE/GS/EMC,UKCA,RCM,KC, ERP/DoE	VI	EN/IEC/UL62368

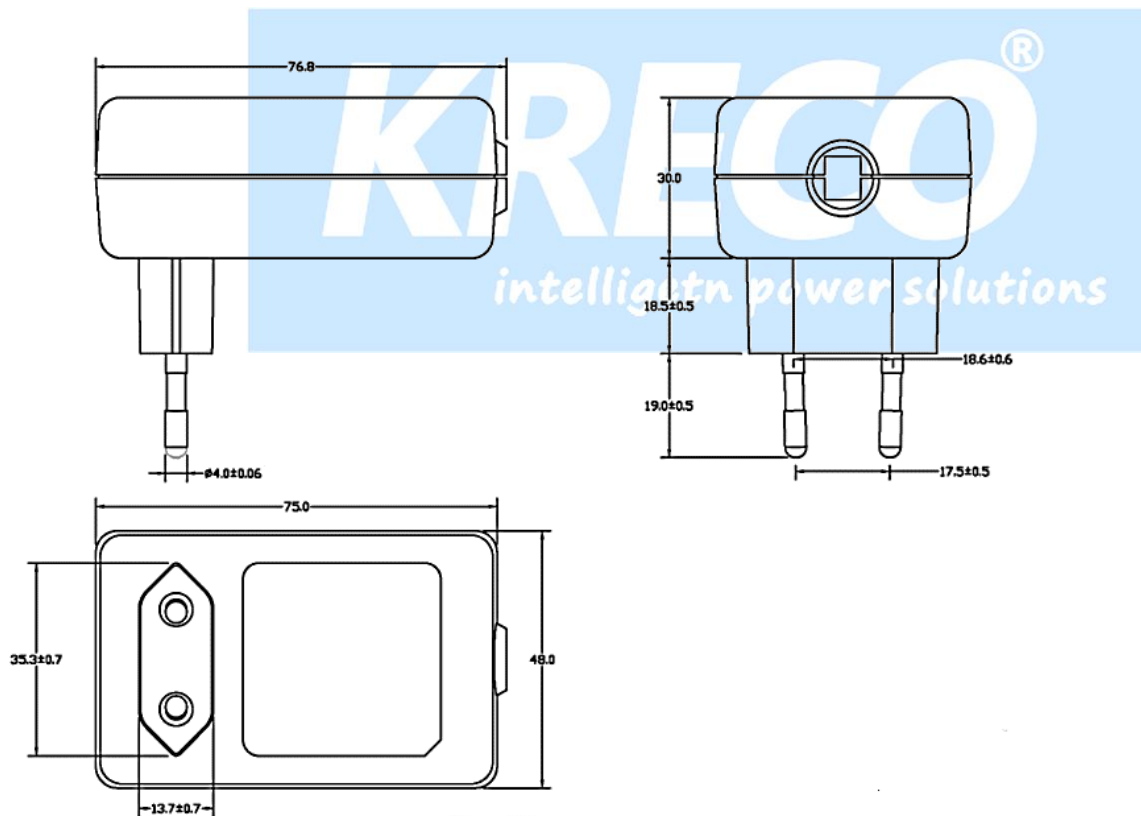
Dimension Diagram for KRE050MPS

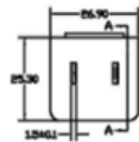
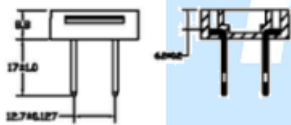
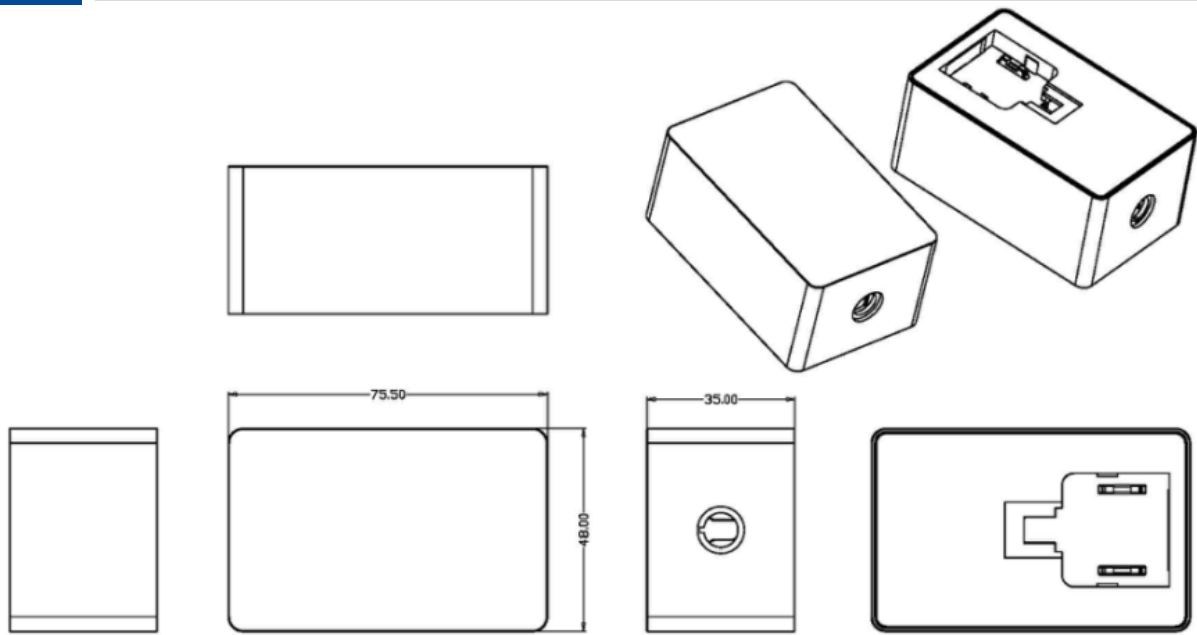
Unit: mm



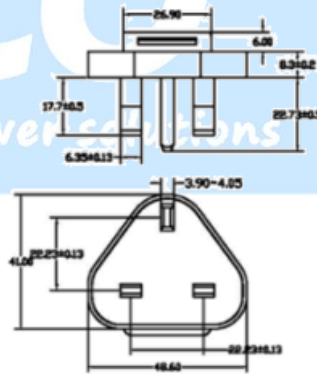
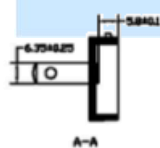


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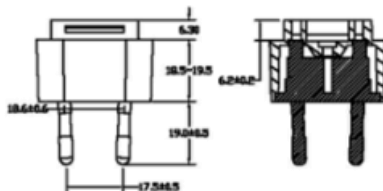
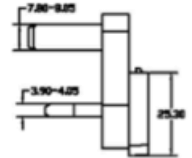
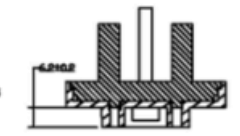




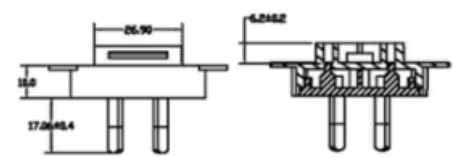
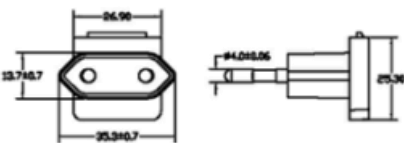
UL PIN



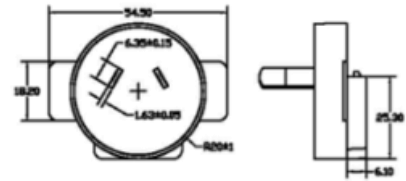
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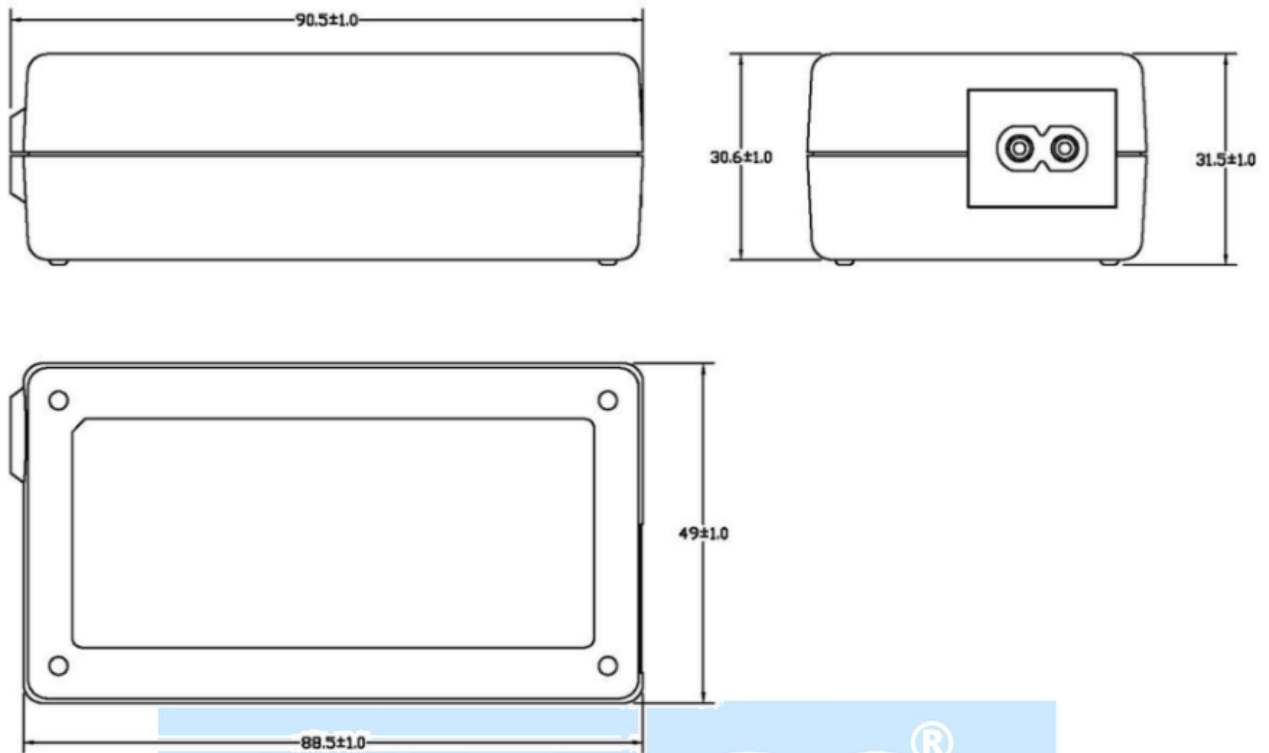


VDE PIN



SAA PIN





**KRECO**<sup>®</sup>  
intelligent power solutions

- (1) I for Interchangeable version, normally include EU, UK, US, AU version plugs, more plug type could be re-designed, or added to production order.
- (2) xxx for Output voltage and yyyy for output current, what you are going to order, please must specify to sales.
- (3) Safety model number differs from the order number, part number, and shape number as per respective OEM/ODM factories.

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