

# SKIM1000EV

## Insulation Monitoring Device



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# SKIM1000EV

## Insulation Monitoring Device

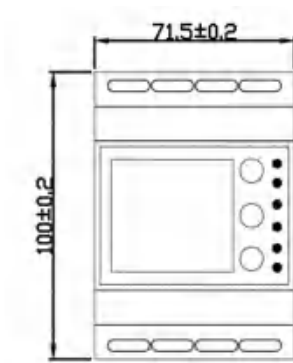
SKIM1000 is an insulation monitoring device for IT system main circuits below DC1000V, which is specifically developed for DC charging piles, Battery energy storage, Solar power and new energy vehicles.



## SKIM1000EV Features

- Built in/external testing/reset buttons
- Automatic and manual reset functions
- Multi type, wide range control power input
- Humanized and easy to operate interface, which can display various parameters and system leakage capacitance
- DIN rail installation method
- LCD screen display with backlight
- Communication enables reading of positive to ground, negative to ground voltage and insulation resistance values
- Measure and display the insulation resistance of ungrounded systems
- Measurement and display of leakage capacitance (C)
- Communication via Modbus RS-485
- Adjustable response delay
- Two independent alarm relays (each relay has a switching contact)
- N/O or N/C operation, (Optional)

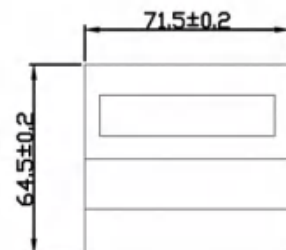
## Installation Dimensions (Unit: mm)



Front



Side



Vertical

## SKIM1000EV Technical Data

IT System	IT System Rated Voltage	DC0~1000V
Power Supply	Voltage	AC 85 ~ 265V ( 45 ~ 65Hz ) DC 18 ~ 36V
	Rated Power	≤ 6W
Alarm Value	Alarm Value Ran 1	1KΩ...20MΩ
	Alarm Value Ran 2	1KΩ...20MΩ
Response Time	at R=0.5xRan and G=1 μ F	≤ 4 s
	Insulation Alarm Delay (ton)	0...9999s
Measuring Circuit	Measure Voltage(U1)	± 60V
	Internal Resistance (R1)	≥ 600kΩ
	Impedance	≥ 600kΩ
	Permissible Leakage Capacitance (Ce)	≤ 500 μ F
	Measurement Value	1KΩ...20MΩ
	Measurement Accuracy (10KΩ...20MΩ )	± 15 %
	Password	off/0...999 (off)
	Fault Record	128
	Fault Memory, Alarm Relay	on/off
	Filters Number	1~10
Switching Input	1-Channel Dry Contact Point	Built-in DC15V Power
Switching Output	2-Channel Relay	1 Normally Open 1 Normally Open/Close
Communication Protocol	1-RS485	Modbus RTU 2400~38400bps
Display	LCD	128*64
Connecting Line	RS485	STP 0.2...2.5 mm <sup>2</sup>
	Test Line	0.2...2.5 mm <sup>2</sup>
General Characteristics	Weight	0.2KG
	Protection Grade	IP20
	Dimension	100 × 72 × 66mm
	Shell Material	PC+ABS
Working Condition	Working Temperature	-20℃ ~ 55℃
	Storage Temperature	-30℃ ~ 70℃
	Altitude	≤2000m
	Insulated Resistance	AC4000V

## SKIM1000EV Application



Solar Power



Charging Station



Energy Storage