

Deye _®

SUN-MI-RELAY-01

Ningbo Deye Inverter Technology Co., Ltd





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SAFETY

IMPORTANT SAFETY INSTRUCTIONS. SAVE THIS INFORMATION.

Follow all safety and assembly instructions when installing the SUN-MI-RELAY-01 (Network and System Protection Device).

Safety Instructions

Can be OEM	Trademark.
	Caution, risk of electric shock.
\wedge	Caution, risk of burn - Do not touch.
	Caution, hot surface.
X	Symbol for the marking of electrical and electronics devices according to Directive 2002/96/EC. Indicates that the device, accessories and the packaging must not be disposed as unsorted municipal waste and must be collected separately at the end of the usage. Please follow Local Ordinances or Regulations for disposal or contact an authorized representative of the manufacturer for information concerning the decommissioning of equipment.
CE	CE mark is attached to the solar inverter to verify that the unit follows the provisions of the European Low Voltage and EMC Directives.
	Refer to the operating instructions.
Qualified personnel	Person adequately advised or supervised by an electrically skilled person to enable him or her to perceive risks and to avoid hazards which electricity can create. For the purpose of the safety information of this manual, a "qualified person" is someone who is familiar withrequirements for safety, refrigeration system and EMC and is authorized to energize,ground, and tag equipment, systems, and circuits in accordance with established safety procedures. The inverter and endues system may only be commissioned and operated by qualified personnel.



INTRODUCTION

SUN-MI-RELAY-01 (Network and System Protection Device): it is used to monitoring and disconnect the grid when sensing the grid voltage/frequeny is out of the allowed range. The relay kit also is able to reconnect grid when the grid condtions resume. It must communicate with the built-in wifi module of the microinverter, the microinverter can work normally, otherwise the microinverter can not work. The localhost of this relay kit is 10.10.101.254.



This device package contains two types of Female connectors and one type of Male connector. Please choose the appropriate connector for connection according to the actual situation.







Male connector





Female connector



37.7

INSTALLATION



WIRING DIAGRAM

Before the installation, please turn off the the DC and AC of the microiverter and wait for 5mins then start to operate.

The SUN-MI-Relay-01 (Network and System Protection Device) supports fast plug connection. It is equipped with quick plug terminals which is compatible with all Deye microinverters(for the G3 series, it needs install another adapter). Firstly, Plug the male connector of SUN-MI-RELAY-01 to the female connector of Microinverter. then plug the female connector of SUN-MI-RELAY-01 to the male connector of AC plug. At last, connect the AC plug go the plug board of household.

Note: For the connection between SUN-MI-Relay-01(Network and System Protection Device) and microinverter, the tool is needed.



Technical Data

Model	Network and System Protection Device
AC Intput Data(Inverter)	
Nominal Voltage	220V/230V
Nominal Frequency	50/60Hz
Max AC Current	12A
Nominal AC Current	12A
Matching Inverter	MicroInverter
AC Output Data(Grid)	
Nominal Voltage	220V/230V
Nominal Frequency	50/60Hz
Max AC Current	12A
Nominal AC Current	12A
General Data	
Ambient Temperature Range	-40-65°C, >45°C derating
Humidity	0%-100% RH
Cabinet Size (WxHxD)	111mm*95mm*37.7mm (Excluding Connectors and Brackets)
Weight	340g
Enclosure Environmental Rating	IP67
Communication	Wireless/Wifi
Safety EMC / Standard	IEC/EN 6100-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2,VDE-AR-N 4105
WiFi information:	
Frequency range	2.412~2.472GHz
WiFi maximum transmitting power	17 dBm \pm 1.5dBm
Antenna	External Antenna
Antenna Gain	3dBi



How to connect the SUN-MI-RELAY-01 to the microinverter via web

1. Turn on the wireless network of your PC or smartphone.

2. Select network of SUN-MI-RELAY-01 (network name: RE_3985266017) and the default password of the network is listed on the nameplate of PWD: "5c4db8d6".

		Wi-Fi	
	1 19	Personal Hotspots	
		Known Network	
	5/11/ S.S.M.	ᅙ deye-d3	
	111. 200	Other Network	
		RE_3985266017	
		🛜 wifi_test	Ê
11	\sim	중 AP_2368927426	
N/		Wi-Fi Settings	
•			
	The Wi-Fi network "RE_3985266017" requires a WPA2 password.		
•	You can also access this Wi-Fi network by sharing the password from a nearby iPhone, iPad, or Mac which has connected to this network and has you in their contacts.		
	Password: ••••••		
?	Cancel		

3. Open a browser and enter 10.10.101.254. Both username and password are "admin". (Recommended browser: IE 8+, Chrome 15+, Firefox 10 +).

♥	Sign in to 10.10.101.254				
	Sign in to 10.10.101.254:80 Your password wil be sent unencrupted. admin 	Cancel	Sign in		



4. Browser jumps to "Status" page, the basic information is listed there.

Status			Help
Wizard	Inverter information Inverter serial number		The device can be used as a wireless access point(AP
Quick Set	Firmware version(main)		mode) to facilitata users to configure the device, or it
Advanced	Firmware version(slave)		can also be used as a wireless information termina
Upgrade	Inverter model		(STA mode) to connect the
Restart	Rated power	W	router.
Posot	Current power	W	
Reset	Yield today	kWh	Status of remote server
	Current power	kWh	to server failed last time.
	Alerts		If under such status, please check the issues as follows:
	Last updated		(1) check the device
	Device information		IP address is obtained or not; (2)check if the router is
	Remote server information		connected to internet or not; (3)check if a firewall is set on the router or not;

5. Click to enter the "Quick Set" page and click the "Search" button to start searching for network hotspots near the NS protection device.

Wizard	Network name (SSID)		earch	In this page, you can click the "Search" button to
Quick Set	(Note: case sensitive)		earch	automatically search for nearby wireless access
Advanced	Encryption method	WPA2PSK 🔋		point, and connect your device to it by setting the
Upgrade	Encryption algorithm	AEC 8		network parameters.
Restart Reset	Password (8-64 bytes) (Note: case sensitive)			this kind of device before, please follow the setup wizard.
	Obtain an IP address automa	tically Enable 🖲		★Note: After clicking
	IP address	10.10.100.150		Save, tho system will restart immediately.
	Subnet mask	255.255.255.0		You need to re-login the configuration interface after restart.
	Gateway address	10.10.100.254		
	DNS server address			
	* Note: After clicking Save	, the system will restart immediately.		
		Save		
			-	



6. Click to select your micro-inverter's WLAN hotspot and enter the inverter hotspot password.

						+X[U]
Status	Please select your cur	rent wireless networl	k:			Help
Wizard	Site Survey				Please refresh repeatedly if	
Quick Set	SSID	BSSID	RSSI	Channel		there is no desirable
Advanced	 AP_3907817077 	EC:FD:F8:9A:53:A	100	1	_	available
Lin and a						
upgrade						
Restart						
Reset	Please	enter the password!				
	4 M - 4 - 14/6 -				_	
	* Note: Whe			close		
	* Note: Whe connection shorten the distance I	between the device and	router.	close		
	* Note: Whe connection shorten the distance l	between the device and	router. ок	Close]	
	* Note: Whe connection shorten the distance I	between the device and	router. Ок	close Refresh		
	* Note: Whe connection shorten the distance l	between the device and	router. ок	close Refresh		
	* Note: Whe connection shorten the distance l	between the device and	router. Ок	Close Refresh		
	* Note: Whe connection. shorten the distance l	between the device and	router. ок	Refresh		
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	* Note: Whe connection. shorten the distance l	between the device and	router. ОК	Refresh		
	* Note: Whe connection, shorten the distance i	between the device and	router. ок	Refresh		
	* Note: Whe connection shorten the distance I	between the device and	router. ОК	Refresh		

7. The initial WLAN network name and password of the inverter are both affixed to the inverter nameplate.Click SAVE the communication connection will be completed.

Wizard	Network name (SSID)	AD 2007017077	In this page, you can click
Quick Set	(Note: case sensitive)	AP_3907817077	automatically search for
Advanced	Encryption method		point, and connect your
Upgrade		WFAZPSK	network parameters.
Restart	Encryption algorithm	AES 📵	★Note: If you haven't set
Reset	Password (8-64 bytes) (Note: case sensitive)	•••••	please follow the setup wizard.
	Obtain an IP address auto	matically Enable 🖲	★Note: After clicking Save, tho system will
	IP address	10.10.100.150	restart immediately.
	Subnet mask	255.255.255.0	configuration interface after restart.
	Gateway address	10.10.100.254	
	DNS server address	68.241.0.66	
	* Note: After clicking S	ave, the system will restart immediately.	
		Save]





8. Click to enter the Status page,You can view the current connection information on the Device information page.if you need help, Please contact Deye's official after-sales service or authorized service provider.

	- Inverter information		Holp
Wizard	Inverter serial number		пер
Quick Set	Firmware version(main)		
Advanced	Firmware version(slave)		The device can be used as a wireless access point(AP
Upgrade	Inverter model		mode) to facilitata users to configure the device, or it
Restart	Rated power	W	can also be used as a wireless information termina
Reset	Current power	W	(STA mode) to connect the remote server via wireless
Reset	Yield today	kWh	router.
	Current power	kWh	Charles of an analysis of an and
	Alerts		Not connected: Connection
	Last updated		to server failed last time.
	- Device information Device serial number	3985266017	check the issues as follows: (1)check the device information to see whether IP address is obtained or
	Firmware version	LSW5BLE_MW17_5406_RELAY_2701.00 -D0	not; (2)check if the router is
	Wireless AP mode	Enable	connected to internet or not; (3)check if a firewall is set
	SSID	RE_3985266017	on the router or not;
	IP address	10.10.101.254	
	MAC address	40:2A:8F:B1:07:5F	 connected: connection to server successful last time;
	Wireless STA mode	Enable	+ Unknown: No connection
	Router SSID	AP_3907817077	to server.Please check again in 5 minutes.
	Signa Quality	100%	-0
	IP address	10.10.100.150	
	MAC address	40:2A:8F:B1:07:5F	

Ningbo Deye Inverter Technology Co., Ltd

Web: www.deyeinverter.com

Tel: +86 (0) 574 8622 8957 Fax: +86 (0) 574 8622 8852

E-mail: service@deye.com.cn

Add: No.26 South YongJiang Road, Daqi, Beilun, NingBo, China.





