Quick Guide for DIN-Rail Logger (WiFi)

Product Model: LDW-1

I Instruction

By collecting the data from inverter, meter and other devices, DIN-Rail logger (WiFi) can run a long-term and efficient monitoring of PV system.

Logger sends the data to the monitoring platform via WiFi. The real-time status and historical data can be displayed with graphs, enabling intuitive and clear understanding of PV system.

$II \, Installation$

2.1 Step 1: Plug the power module into the logger.

- Step 2: Lock the yellow snap-fit
- Step 3: Mount the device on the rail
- Step 4: Push the black snap-fit



2.2 a. Plug L-line/N-line into the terminal(220V) and insert into the power module.

b. Connect the COM line to RS485 terminal and insert into the logger.

c. Connect the COM line to inverter RS485 port. (Please refer to inverter instructions.)

Notice: All installation steps must be carried out under no power supply.



2.3 Please check the installation again and power on the device. After power-on for 1 min, users can check the logger running status and the data on SOLARMAN platform.

Lights	Status	Instruction
Status	Flash	Module normal
Status	ON/OFF	Module abnormal
	Flash	Connecting to server
Link	ON	Normal connection to server
	OFF	Fail to connect to server
	Flash	Communicating with inverter
485/422	ON	Normal communication with inverter
	OFF	Fail to communicate with inverter

III LED Indicator Lights Instructions

$\operatorname{I\!V}$ Abnormal Status Processing

Lights	Status	Fault Description	Fault Cause	Solution
			Router has no network/Router has no DHCP function or DHCP function is off	Check router status
Link	OFF	Fail to connect to	Logger network not configured	Configure the network again
		Server	WiFi signal strength	Improve the network
			weak	environment
			Server	
			abnormal/Server	Contact the customer service
			direction abnormal	
			Firmware protocol incorrect	Contact the customer service
485/422	OFF	OFF Fail to Communicate with	Wiring error	Check the wiring again
		inverter	Inverter com settings	Check the com address and
			error	protocol type
Status	OFF	Logger abnormal	Module abnormal	Contact the customer service

Notice: If it still can't be resolved or indicator lights status do not show in the table below, please contact our customer service.

Information need to be provided:

a: Product Model

b: Logger SN

c: Inverter brand, type, number

V Networking Setup

5.1 DIN-Rail Logger Configuration Page

5.1.1 Prepare a computer/smart phone that can connect to wireless network.

5.1.2 Connect to logger AP (Please do Not connect the cable when configuring the logger.)

Select and connect AP XXXXXXXXX in the network list (XXXXXXXXX means logger SN) .



5.1.3 Log in to logger WEB page

Open a browser and enter 10.10.100.254. Username: admin Password: admin

Login		
Username		
Password		
	ОК	Cance I

5.1.4 Go to "Setup Guide" and click "Start".

Status	Dear user:
Wizard	
Wireless	
Cable	
Advanced	Thank you for choosing our device.
Upgrade	Next, you can follow the setup wizard to complete the network setting step by step;
Restart	or you can select the left menu for detailed settings.
Reset	★Note: Before setting, please make sure that your wireless or cable network is working.
	Start
	Start

5.2 WiFi Configuration (If Ethernet is selected, please skip this step.)

5.2.1 Select "Wireless connection".

Status	Connecti	on Setting	S:				
Wizard							
Wireless							
Cable							
Advanced							
Upgrade		Wireles	s connect	ion			
Restart		O Cable c	onnection		Wirel	less Er	nabled 🗸
Reset							
				3			-
					Back		Next
		0	0		~	0	-

5.2.2 Select WiFi router name.

Status	Please select your curren	t wireless network:
Wizard		
Wireless	0	and the second section of the
Cable	õ	Dealer and Security Statistics of the
Advanced	0	10.001 Note + 245 3
Advanced	0	ACCESS TO A COLOR OF A
Upgrade	Õ.	a property as to of the property in
Restart	0	0.0015104205
Reset	0	In a last is private a
	NETGEAR47	2c:30:33:d6:3f:fc 100% 10
	Add wireless network mai	Refresh
	Network name (SSID) (Note: case sensitive)	NETGEAR47
	Encryption method	WPA2PSK V
	Encryption algorithm	AES V
		Back Next

5.2.3 Enter router password.

Status	Please	enter	the wir	eless ne	twork p	assword	:	
Wizard								
Wireless								
Cable								
Advanced								
Upgrade		Pass (Note	word (8-	-64 bytes)				
Restart		Re-e	nter pas	sword	Γ			
Reset					Ē	Show Pas	sword	
						Back		Next

5.2.4 Modify AP password to enhance safety.

Status	Enhance Security
Wizard	
Wireless	You can enhance your system security by choosing the following methods
Cable	Lide AP
Advanced	
Upgrade	Change the encryption mode for AP
Restart	Encryption mode WPA2-PSK V
Reset	WDA operation
	VVEA ETICI VUIDIT
	Encryption algorithm
	Encryption algorithm TKIP O AES O TKIPAES Password (8 to 63 characters)
	Encryption algorithm Image: TKIP Oracle Or
	Change the user name and password for Web server
	Change the user name and password for Web server Back Next

5.2.5 WiFi configuration is done.



Notice: Click "Done" to reboot system, which might take 1 minute.

5.3 Ethernet Configuration (If WiFi is selected, please skip this step.)5.3.1 Select "Cable connection", and set Wireless: Disable.

Status	Connection Settings:
Wizard	
Wireless	
Cable	
Advanced	
Upgrade	O Wireless connection
Restart	Cable connection Wireless Disabled
Reset	
	Back Next
	1 2 3 4 5 6 7

5.3.2 Network Setup (Obtain an IP address automatically: Enable)

	Status	Please fill in the following information:										
	Wizard Wireless Cable Advanced Upgrade		Obt auto IP a Sub	ain an IP omatically oddress onet mask	address	En: 0.0	able v]				
	Restart		Gat	eway add	ress	0.0	0.0.0					
	Reset		DN	S server a	iddress							
		_	1	2	3	4	Back	6	Next 7			
No Ma DH If t	tice: ost routers sup ICP function: C he router rest parameter a	port DH DN) ricts IP co according	CP fu	nctio ction, outer.	n to c pleas	btain se sele	IP ad	dress Disab	autor	matical nd mod	ly. (Set Jify the	
St	atus F	Please fill in	the foll	owing i	nformat	ion:						
	ireless able dvanced	Obta auto IP ac	iin an IP matically Idress	address		Disable ~) 0.0.0.0]					
- Op Re	estart	Gate	way add	iress		0.0.0.0			=			
R	eset	DNS	servera	address	[
						Back		Next				
		1	2	3	4	5	6	7				

5.3.3 Modify AP password to enhance safety.

Status	Enhance Security
Wizard	5
Wireless Cable	You can enhance your system security by choosing the following methods Hide AP
Advanced	Change the encryption mode for AP
Restart	Encryption mode WPA2-PSK V
Reset	WPA encryption
	Encryption algorithm
	Encryption algorithm TKIP O AES O TKIPAES Password (8 to 63 characters) 12345678
	Encryption algorithm TKIP O AES O TKIPAES Password (8 to 63 characters) 12345678 Change the user name and password for Web server Image: Change the user name and password for Web server Image: Change the user name and password for Web server Image: Change the user name and password for Web server
	Encryption algorithm TKIP OAES OTKIPAES Password (8 to 63 characters) Change the user name and password for Web server Back Next

5.3.4 Ethernet configuration is done.



5.3.5 Connect logger and router via cable.

Notice:
 If the signal strength is <15, it means Unstable. Please adjust router location. SSID of router network can not exceed 30 characters. "Space" is excluded. When WiFi logger is at STA mode, supported router channel range: 1-11. WiFi router name and password does not support special characters, e.g. , ; , ='". It is recommended to choose a-z, a-z, 0-9 as router SSID and password. Some router might restrict WiFi connection. It is recommended to turn off Qos function. WiFi supports standard encryption method (WEP/WPAPSK/WPA2PSK), mixed encryption method is not supported. Turn on router DHCP function, or WiFi cannot connect to router. If you have problem during signal searching or router connection, you can reboot the router or restore factory settings. If the problem still exists, you can contact customer service for help.

VI SOLARMAN Monitoring

6.1 SOLARMAN Smart

- 6.1.1) If you are an household user, please scan QR code below to download SOLARMAN Smart APP.
- 6.1.2) Or you can log in to https://home.solarmanpv.com



SOLARMAN Smart

6.2 SOLARMAN Business

6.2.1) If you are an installer/service provider/manufacturer, please scan QR code below to download SOLARMAN Business APP.

6.2.2) Or you can log in to https://pro.solarmanpv.com



VII Contact

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