WIFI BOX

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC warning:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

IC warning

- English:

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

- French:

Le présentappareilest conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitationest autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareildoit accepter tout brouillageradioélectriquesubi, mêmesi le brouillageest susceptible d'encompromettre le fonctionnement.

FCC ID: 2AWE8-WIFI-BOX



Quick Guide

WIFI BOX

From this page

WIFI BOX is an external data logger in the SolarMAN PV monitoring series.

By connecting with single or multiple inverters through RS485/422/232 interface, the Kit can collect information of PV systems from inverters. With the integrated WiFi function, the Kit can connect to router and transmit data to the web server, realizing remote monitoring for users. In addition, Ethernet is also available for connection to router, enabling transmission of data.

Users can check the runtime status of the device by checking the 4 LEDs on the panel, indicating Power, 485/422, Link and Status respectively.

 $B\,$: Install data logger

- ${\ensuremath{\mathcal{C}}}$: Connect data logger and inverters
- \boldsymbol{D} : Connection setting
- $E\,$: Register on SolarMAN Portal
- ${\cal F}\,$: Log in SolarMAN Portal to manage power station
- G : Trouble shootings

This Quick Guide is intended to assist users in quick installation and start of WIFI BOX. If any problems, please refer to corresponding chapters of <u>WIFI BOX User Manual</u> for details.

A: Unpack

I. Checklist

After unpacking the box, please make sure all the items are contained as follows:



1 PV data logger (WIFI BOX)

II. Interface and connection



1 power adapter with European or British plug







2 screws

2 expandable rubber hoses

1 Quick Guide



★ Notice: Some products may use RS232.

B: Install data logger

WIFI BOX can be either wall-mounted or flatwise. Please refer to User Manual for details.

C: Connect data logger and inverters

Notice: 1. Power supply of inverters must be cut off before connection. Make sure that all connections are completed, then power the data logger and inverters, otherwise personal injury or equipment damage may be caused.

2. Basic version of WIFI BOX with RS485/422 port can be connected to up to 4 inverters at a time. Advanced version may support up to 32 devices; WIFI BOX with RS232 port can be connected to 1 inverter at a time.

I. Connection with single inverter

Connect inverter and data logger with network cable, and connect data logger and power supply with power adapter.



II. Connection with multiple inverters

- 1. String connect multiple inverters with network cables.
- 2. Connect the first or last inverter in the string to data logger with network cable.
- 3. Connect data logger to power supply with power adapter.



III. Line order of connector to WIFI BOX



Device	0rder	Color	RJ45	RS485	RS422	RS232
	1	White orange	Pin1	NC	NC	NC
	2	Orange	Pin2	NC	NC	NC
	3	White green	Pin3	NC	RX+	RXD
	4	Blue	Pin4	A	TX+	NC
<u>WiFi</u> Kit	5	White blue	Pin5	В	TX-	NC
	6	Green	Pin6	NC	RX-	TXD
	7	White brown	Pin7,	GND	GND	GND
	8	Brown	pin8	GND	GND	GND

IV Confirm connection

When connection between inverter and data logger is finished and with the power on for about 5 minutes, please check the 4 LEDs. If POWER, RS485/422 and STATUS are permanently on, the connection should be successful. If any problems, please refer to G. Debug.

D: Connection setting

The Kit can transfer information via either WiFi or Ethernet, users may choose the appropriate method accordingly.

The configuration of the kit may be set via PC or APP Tool for iPhone and smart phones with Android operation system.

Please visit App Store or Google Play to get SolarMAN App for free.

I. Connection via WiFi

Notice: The setting hereinafter is operated with Windows XP for reference only. If other operating systems are used, please follow the corresponding procedures.

1. Prepare a computer or device with WiFi, e.g. tablet PC and smartphone with WiFi function.

2. Obtain an IP address automatically.

🗕 Wireless Network Connection Properties 🛛 🛛 🔀
General Wireless Networks Advanced
Connect using:
802.11b/g Mini Card Wireless Adapte
This connection uses the following items:
File and Printer Sharing for Microsoft Networks QoS Packet Scheduler Soft Internet Protocol (TCP/IP)
Install Uninstall Properties
Description
Allows your computer to access resources on a Microsoft network.
 ✓ Show icon in notification area when connected ✓ Notify me when this connection has limited or no connectivity
OK Cancel

ØSelect Obtain an IP address automatically, and click **OK**

Internet Protocol (TCP/IP) Pro	operties 🛛 🖓 🔀
General Alternate Configuration	
You can get IP settings assigned a this capability. Otherwise, you need the appropriate IP settings.	utomatically if your network supports I to ask your network administrator for
<u> </u>	tically
Use the following IP address:	
IP address:	
Sybnet mask:	(4 (4) 4)
Default gateway:	· · · · · ·
O Dbtain DNS server address a	utomatically
• Use the following DNS server	addresses:
Preferred DNS server:	
Alternate DNS server:	
	Ad <u>v</u> anced
	OK Cancel

3. Set WiFi connection to the data logger

[®]Open wireless network connection and click View Wireless Networks

Wirel	ess Netwo	rk Connection St	atus 🦉
ieneral	Support		
Conn	ection		
Stat	us:		Connected
Netv	work:		yingzhendlink
Dura	ation:		10:14:53
Spe	ed:		54.0 Mbps
Sign	al Strength:		Ditte
Activi	ly .		
		Sent —	Received
Pac	kets:	422,591	496,139
Prop	erties	Disable	ew Wireless Networks
			Close

⁽²⁾ Select wireless network of the data logger, no passwords required as default. The network name consists of <u>AP</u> and the <u>serial number of the product</u>. Then click **Connect**.



③Connection successful



Notice: If **AP_(serial number of product)** is not available in the wireless network list, there may be problems in the connection or setting of data logger. Please refer User Manual for troubleshooting.

4. Set parameters of data logger

Den a web browser, and enter 10.10.100.254, or http://wifi/ then fill in username and password, both of which are

admin as default.



0	A username "GoAhead"	and password are being requested by http://10.10.100.254. The site s	ays:
User Name:	admin	admin	
Password:	•••••	admin	

 $\oslash\,$ In the Status page, you can view general information of the data logger.

Status Device information Wizard Device serial number Eirmware version	60100000	
Wizard Device serial number	60100000	
Firmware version	00100000	The device can be used as
Vireless	H4.01.36Y1.0.04W1.0.04(KL_V1.1)	mode) to facilitate users to
Wireless AP mode	Enable	configure the device, or it
dvanced	AP_601000000	wireless information termin
IP address	10.10.100.254	(STA mode) to connect the
MAC address	AC:CF:23:10:F3:64	router.
Wireless STA mode	Enable	
eset Router SSID	yingzhendlink	
Signal Quality	34%	
IP address	192.168.1.187	
MAC address	AC:CF:23:10:F3:65	
Cable mode	Enable	
IP address	192.168.1.187	
MAC address	AC:CF:23:10:F3:67	

 $\ensuremath{\mathfrak{Follow}}$ the setup wizard to start quick setting.

(a)Click **Wizard** to start, then click **Start** to continue..

										Help
Status	Dear user:									
<u>Wizard</u>									yo	u to complete the device
Wireless									se	tting within one minute.
Cable										
Advanced		Thank y	ou for ch	oosing ou	device.					
Upgrade		Next, yo the netv	ou can foll vork settir	ow the se	tup wizaro step;	to comple	ete			
Restart		or you o	an select	the left m	enu for de	etailed sett	ing.			
Reset		*Note:	Before	etting, pl	ease mal	ke sure th	at			
		your wi	reless ne	etwork is	working.					
						Sta	rt			
	1	2	3	4	5	6	7			
								- C		

(b)Select Wireless connection, and select the type of your inverter, then click Next

Ctatus		Help
Wizard	Network connection:	The STA mode of wireless
Wireless		connection will be turned of by system automatically
Cable	Wireless connection	when you choose cable network connection.
Advanced	Cable connection Wireless Enabled 💌	Whether to keep the AD
Upgrade		mode of wireless connectio
Restart	Select inverter brand:	or not can be set by turning on or off the wireless
Reset		function.
	Back	
	1 2 3 4 5 6 7	

(c)Click **Refresh** to search available wireless networks, or add it manually.

(d)Select the wireless network you need to connect, then click $\ensuremath{\textbf{Next}}$

Ctatue					
Status	Please select your current wireless n	ietwork:		This step will bein to	
Wizard	Sito Survoy		*	connect the device to your	
Wireless	SSID	BSSID RSSIChannel		desired WLAN. If you do not	
Cable	AP 603890570 a	ac:cf:23:10:f3:38 55% 1		find your wireless router on	
Adversed	○ ChinaNet-SFVe	Dc:4c:39:10:65:c9 70% 1	E	several times or add it	
Advanced	iTV-SFVe 5	5a:4c:39:10:65:ca 70% 1		manually.	
Upgrade	AP_603040574 a	ac:cf:23:10:f3:48 20% 1			
Restart	yingzhendlink €	ec:6c:9f:04:b3:2c 50% 1		Please check your wireless	SS
	© <u>AP_604779731</u> a	ac:cf:23:12:1e:9c 55% 1		router for the right	
Reset	© <u>AP_501201091</u> a	ac:cf:23:10:84:04 10% 1		encryption algorithm.	
	© <u>AP_901000414</u>	ac:cf:23:ff:33:2c 39% 1			
	on lead	a8:15:4d:6c:fb:a4 0% 1		If your wireless router does	
		1 00 17 00 07 10 5501 5			
	AP_SOLAR_PORTAL_M2M_20120615/a *Note: When RSSI of the selected WiFi nu connection may be unstable, please selec shorten the distance between the device a	a4:99:47:29:67:10 55% 5 etwork is lower than 15%, the tother available network or and router.	Ţ	not broadcast SSID, please add a wireless network manually.	
		a4:99:47:29:67:f0 55% 5 etwork is lower than 15%, the t other available network or and router. Refresh	-	not broadcast SSID, please add a wireless network manually.	
	AP_SOLAR_PORTAL_M2M_20120615/a ANote: When RSSI of the selected WiFin connection may be unstable, please selec shorten the distance between the device a Add wireless network manually:	a4:99:47:29:67:f0 55% 5 etwork is lower than 15%, the t other available network or and router. Refresh	-	not broadcast SSID, please add a wireless network manually.	
	 AP_SOLAR_PORTAL_M2M_20120615/a Note: When RSSI of the selected WiFi nu connection may be unstable, please select shorten the distance between the device a Add wireless network manually: Network name (SSID) (Note: case sensitive) 	a4:99:47:29:67:f0 55% 5 etwork is lower than 15%, the t other available network or and router. Refresh	-	not broadcast SSID, please add a wireless network manually.	
	AP_SOLAR_PORTAL_M2M_20120615	a4:99:47:29:67:f0 55% 5 etwork is lower than 15%, the t other available network or and router. Refresh	-	not broadcast SSID, please add a wireless network manually.	
	AP_SOLAR_PORTAL_M2M_20120615[a ANote: When RSSI of the selected WiFi ne connection may be unstable, please select shorten the distance between the device a Add wireless network manually: Network name (SSID) Vingzhene (Note: case sensitive) Encryption method WPA2PSK Encryption method Type	a4:99:47:29:67:f0 55% 5 etwork is lower than 15%, the t other available network or and router. Refresh	-	not broadcast SSID, please add a wireless network manually.	
	 ● AP_SOLAR_PORTAL_M2M_20120615[a ★Note: When RSSI of the selected WiFi nu connection may be unstable, please select shorten the distance between the device and Add wireless network manually: Network name (SSID) (Note: case sensitive) Encryption method Encryption algorithm TKIP 	a4:99:47:29:67:f0 55% 5 etwork is lower than 15%, the t other available network or and router. Refresh	-	not broadcast SSID, please add a wireless network manually.	
	AP_SOLAR_PORTAL_M2M_20120615	a4:99:47:29:67:f0 55% 5 etwork is lower than 15%, the t other available network or and router. Refresh dlink Back Next	-	not broadcast SSID, please add a wireless network manually.	
	AP_SOLAR_PORTAL_M2M_20120615	a4:99:47:29:67:f0 55% 5 etwork is lower than 15%, the t other available network or and router. Refresh dlink Back Next	-	not broadcast SSID, please add a wireless network manually.	

(Notice: If the signal strength (RSSI) of the selected network is <15%, which means unstable connection, please adjust the antenna of the router, or use a repeater to enhance the signal.

The SSID of your selected router network should be less than 30 characters, in which blank space should not be included.

(e)Enter the password for the selected network, then click Next

Status	Please enter the wireless network password:	
Vizard	Please make sure you have	
Vireless	password.	
Cable		
Advanced		
Jpgrade	Password (8-64 bytes) (Note: case sensitive)	
Restart	Re-enter password	
Reset	Show Password	
	Connecting	
	Back Next	
	1 2 3 4 5 6 7	

Notice: Router password cannot be recognized if it contains any character such as '&', '#', '%', and blank space.

The password is being verified, please wait for a while. If you have entered an invalid password or encryption method, an error notice will pop up.

Status	Please enter the wireless network password:	
Wizard		Please make sure you have entered the correct
Wireless		password.
Cable		
Advanced		
Upgrade	(Note: case sensitive)	
Restart	R自用页的演息	
Reset		
	Connection to WiFi network failed, invalid encryption method or	
	and the passion of the second se	
	04	
	ОК	
	ОК	
	ок 1 2 3 4 5 6 7	
	ОК 1 2 3 4 5 6 7	
	<u>ок</u> 1 2 3 <u>4</u> 5 6 7	
	ОК 1 2 3 4 5 6 7 	

Status Wizard	Please fill in the following info	ormation:	Most systems support the
Wireless Cable	Obtain an IP address automatically	Enable •	function of DHCP to obtain IP address automatically. Please select disable and add it manufills if your restor
Advanced	IP address	0.0.0.0	does not support such
Upgrade	Subnet mask	0.0.0.0	tunction.
Restart	Gateway address	0.0.0	
Reset	DNS server address		
	1 2 3	Back Next	

(f)Select Enable to obtain an IP address automatically, then click Next

(g)Enhance security settings of the WIFI BOX by selecting any options as listed, then click Next.

• Option1

		Help
Status	Enhance Security	
Wizard	You can enhance your system security by choosing the	Hide AP The SSID of the AP
vvireiess	following methods	vou hide the AP Please
Cable	Hide AP	enter the SSID manually
Advanced		when you need to
Upgrade	Change the encryption mode for AP	connect to Ar next time.
Restart	Change the user name and password for Web server	Change the encryption mode for AP
Reset		If you set password for
	Back	need to enter the
		password to connect to
		Ar.
	1 2 3 4 5 6 7	Change the user name
		server
		If you change the
		for the web server, you
		will need to enter the new

If you choose to **hide AP**, the SSID of the AP network for your WIFI BOX will be invisible on your wireless network list. Please reconfirm the IP address of the WIFI BOX on your router before you log in this server next time.

• Option2

		нер
Status	Enhance Security	
Wizard Wireless Cable	You can enhance your system security by choosing the following methods Hide AP	Hide AP The SSID of the AP network will be invisible if you hide the AP. Please enter the SSID manually when you
Advanced Upgrade	Change the encryption mode for AP	time.
Restart Reset	WPA encryption Encryption algorithm TKIP AES TKIPAES Password (8 to 63 characters)	mode for AP If you set password for the AP network, you will need to enter the password to connect to AP. Change the user name
	Change the user name and password for Web server	and password for Web server If you change the username and password for the web server, you will need to enter the new username and password to get access to the setting page.

Ver:1.0.06

If you wish to change the **encryption mode** of the AP network, you will need to enter the correspondent encryption method and password before you connect to this WIFI BOX next time.

• Option3

Status	Enhance Security	
Wizard	Emanee occurry	Hide AP
Wireless	You can enhance your system security by choosing the following methods	will be invisible if you hide
Cable	Hide AP	SSID manually when you need to connect to AP next
Advanced Upgrade	Change the encryption mode for AP	time.
Restart	Change the user name and password for Web server	Change the encryption mode for AP
Reset	Current user name admin	If you set password for the AP network, you will need to
	New user name 123	enter the password to
	Re-enter user name 123	
	New password	and password for Web
	Re-enter password Back Next	server If you change the username and password for the web server, you will need to enter the new username and password to get access to the setting page.
	1 2 3 4 5 6 7	

If you wish to change the user name and the password of the Web server, please enter the new username and password when you need to re-log in this server.

(h)If setting is successful, the following page will display. Click **OK** to restart.

								Help	
Status	Setting con	plete!							
Wizard								After clicking OK, the system will restart	
Wireless								immediately.	
Cable									
Advanced									
Upgrade	Cli	ck OK, the tart imme	e settings v diately.	will take e	effect and t	he syste	m will		
Restart	lf v	ou leave	this interfa	ce withou	it clicking (OK the s	ettings will		
Reset	be	ineffectiv	e.				<u> </u>		
					Back		ОК		
	1	2	3	4	5	6	7		

(i) If restart is successful, the following page will display. If this page does not display automatically, please refresh your browser.

		Help
Status	Setting complete! Please close this page manually!	
Wizard		Note: The IP address of the device may have
Wireless		changed, please refer to
Cable		the procedures to obtain
Advanced		the new IP address.
Upgrade	Please login our management portal to monitor and manage your PV system (Plseae register an account if you do not	
Restart	have one.)	
Reset	To re-login the configuration interface, please make sure that your computer or smart phone and our device are in the same network segment, and enter the new IP address of the device to access the interface.	

Ver:1.0.03

(j) Re- log on this setting page to Status interface after the Web server restart, and check the network connection status of the data logger.

			Help
Status	▲ Device information		
Wizard	Device serial number	603040574	The device can be used as
Wireless	Firmware version	H4.01.40Y2.0.02W1.0.03	mode) to facilitate users to
Cable	Wireless AP mode	Enable	configure the device, or it
Advanced	SSID	AP_603040574	wireless information termina
Lingrado	IP address	10.10.100.254	(STA mode) to connect the
Opgrade	MAC address	AC:CF:23:10:F3:48	router.
Restart	Wireless STA mode	Enable	
Reset	Router SSID	yingzhendlink	
	Signal Quality	76%	
	IP address	192.168.1.130	
	MAC address	AC:CF:23:10:F3:49	
	Cable mode	Disable	
	IP address MAC address Connected Inverter		
	IP address MAC address ✓ Connected Inverter ✓ Remote server information		
	IP address MAC address ✓ Connected Inverter ✓ Remote server information MAC address	AC:CF:23:10:F3:49	
	IP address MAC address Connected Inverter Remote server information MAC address Cable mode	AC:CF:23:10:F3:49 Disable	
	IP address MAC address Connected Inverter Remote server information MAC address Cable mode IP address	AC:CF:23:10:F3:49 Disable	
	IP address MAC address Connected Inverter Remote server information MAC address Cable mode IP address MAC address MAC address	AC:CF:23:10:F3:49 Disable	
	IP address MAC address Connected Inverter Remote server information MAC address Cable mode IP address MAC address MAC address Cable mode	AC:CF:23:10:F3:49 Disable	
	IP address MAC address Connected Inverter Remote server information MAC address Cable mode IP address MAC address Cable mode Vertical Connected Inverter Remote server information	AC:CF:23:10:F3:49 Disable	
	IP address MAC address ✓ Connected Inverter ✓ Remote server information MAC address Cable mode IP address MAC address ✓ Connected Inverter ✓ Remote server information Remote server A	AC:CF:23:10:F3:49 Disable	
	IP address MAC address ✓ Connected Inverter ✓ Remote server information MAC address Cable mode IP address MAC address ✓ Connected Inverter ✓ Remote server information Remote server A Remote server B	AC:CF:23:10:F3:49 Disable Pingable Unpingable	

Notice: After network setting is complete, the Wireless STA mode should be enabled and relative information of your router will display on the interface automatically. Besides the Remote server A should be pingable as the picture described.

II. Connection via Ethernet

1. Connect the data logger to the router via Ethernet port with network cable. Make sure that your computer and the data logger are connected within the same local area network.

2. Reset the data logger.

······································	- ~
Press the reset button with a needle or open paper clip and hold for a while when the 4 LEDs should be the same as	
before. Reset is successful when 3 LEDs, except POWER, turn off.	

3.Set network to the data logger

Enter the configuration interface of your router, and check the IP address of the data logger assigned by the router. Open a web browser and enter the assigned IP address to get access to the configuration interface of the data logger. Fill in username and password, both of which are **admin** as default.

Reco	mmended browsers: Internet Explorer 8+, Google Chrome 15+, Firefox 10+
	<u>Elle E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp
	Connecting +
	(10.10.100.254)
Authentication	a Required
?	A username and password are being requested by http://10.10.100.254. The site says: "GoAhead"
User Name:	admin admin
Password:	••••• admin
	OK Cancel

In the Status page, you can view general information of the device.

	Device information		
Wizard	Device serial number	60100000	The device can be used as
Wireless	Firmware version	H4.01.36Y1.0.04W1.0.04(KL_V1.1)	mode) to facilitate users to
Cable	Wireless AP mode	Enable	configure the device, or it
Advanced	SSID	AP_601000000	wireless information termin
Ingrado	IP address	10.10.100.254	(STA mode) to connect the
Opgrade	MAC address	AC:CF:23:10:F3:64	router.
Restart	Wireless STA mode	Enable	
Reset	Router SSID	yingzhendlink	
	Signal Quality	34%	
	IP address	192.168.1.187	
	MAC address	AC:CF:23:10:F3:65	
	Cable mode	Enable	
	IP address	192.168.1.187	
	MAC address	AC:CF:23:10:F3:67	

Ver:1.0.06

Follow the setup wizard to start quick setting.

Click Wizard to start, then click **Start** to continue.

Status	Dear user:									
Wizard								The	setup wizard will ass	sist
Wireless								settir	ig within one minute	
Cable										
Advanced		Thanky	ou for cho	oosing our	device.					
Upgrade		the net	ou can foll work settin	ow the set og step by	step;	to compl	ete			
Restart		or you o	can select	the left m	enu for de	tailed set	ting.			
Reset		*Note	: Before s	etting, pl	ease mak working.	e sure th	at			
		,			Ū					
						Sta	art			
	1	2	3	4	5	6	7			
		-	-			-				

②Select Cable Connection and the type of your inverter, and you can choose to enable or disable the wireless function,

then click Next

Status	Network connection:	
Wizard		The STA mode of wireless connection will be turned off
Wireless		by system automatically
Cable	C Wireless connection	network connection.
Advanced	Cable connection Wireless Enabled	Whether to keep the AP
Upgrade		mode of wireless connection
Restart	Select inverter brand: Power One	on or off the wireless
Reset		function.
	Rook Nove	
	Dalk NEAL	
	1 2 3 4 5 6 7	

3 Please referring to Step (f) to (h) from page 12 for the following procedures.

E: Register on SolarMAN Portal

Open a web browser and visit the portal website: http://www.solarmanpv.com/portal.

Supported browsers: Internet Explorer 8+, Google Chrome 10+, Firefox 9+, Safari 4+) **O Click Register Now**Sign In

Email:

^②Fill in your email address and password, then click **Next**

ate a New Account					
	Email:			*	Please input a valid Email address, used for login and password retrieving
181 ANT	Confirm Email:			*	Please re-input a valid Email address
	Account Type:	End User	~		
	Password:			*	6-16 characters, case sensitive
C	onfirm Password:			*	6-16 characters, case sensitive
		✓ I accept <u>SolarMAN</u>	Terms of Service		

3 Fill in the information as required, then click $\emph{Complete}$

SolarMAN ⁻			
Manual Anippi Newskil			
eate a New Account			
Site Name			"Maximum 20 Letters
Upload	-		
Image	-	-	
	14.6.00	74	
		4	
	UK.		
Country	China	.94	-
ProvincerState	Anhisi	100	-
City	WU00		-1
Street	1		Locate Your Site
On Map			
ZIP Code			
Timezone	1011T.+08:0018	alin M	
Number			
Format	1734667.84		
Temperature Unit	Ψ.	14	
System			-
Side(KVIp)			-
Feed-In Tant/FIT)		4 m 💌	
in the second			
Panel Type	30	20	
Inverter Type	/image	.195	
Description			
	Tribles This for		
	N solution to the	e r upric	
Registration			
Datalogger			
SN			-0
Installer			
Contact			
Name			
Phone			
	Constant Inc.	-	

④If registration is successful, the following page will display. Click **OK** to return to the homepage of the portal.

		Sign In	
		Email	
-		Password	
	192.188.1.28 上的两支星示:		Pamembarma
	Surrentia registration	_	tign in Reputertine
		OK	Public Siles Demo Account
		The second second	

F: Log in SolarMAN Portal to manage power station

After successful registration and account activation, open the login page of SolarMAN Portal, and input the correct E-mail and password to access the monitoring system and start monitoring and management of power plants.



Notices: If users access the monitoring system for the first time within ten minutes after successful registration, please check the "Real Time" interface as shown below. If there are data shown in the Real Time interface, network setting of data logger and other connection are deemed successful.

	Sel a Monitored	Analyzed	IAN Networked	beta								Logout		
	Home	My Site	e P	ublic Sites		Account								
•		Y		Oven	view	Real Time	History	Al	ert Rep	ort Ana	lysis S	etting		
<u>_</u>	7/9 Chance of Storm 7	7-93F 🧧	7/10 Chanc	e of Storm 79-	102F	🕌 7/11 Chand	ce of Storm 79-	-100F			Alerts:	572 items		
		DC Input				AC Output			Total Energy	Temp-				
No.	Inverter S/N	Channel	Voltage(V)	Current(A)	Phase	Voltage(V)	Current(A)	Power(W)	Frequency(Hz)	(kWh)	erature("C)	Time		
		PV1	233.1	2.25	R	230.2	4.3	1022	50.07					
1	DEDN402011B00003	PV2	242.9	2.16	S	0.0	0.0	0		1841.7	45.2	2012-07-09		
		PV3	0	0	т	0.0	0.0	0						10:01:14
		PV1	247.4	0.3	R	231.0	0.3	0						
2	GBDN202011800031	PV2	0.0	0.0	S	0.0	0.0	0	50.05	442	30.0	2012-04-10		
		PV3	0	0	т	0.0	0.0	0				17:34:48		

G: Debug



I. LED indication

LEDs	Status	Meaning			
POWER	On	Power supply is normal			
	Off	Power supply is abnormal			
485\422	On	Connection between data logger and inverter is normal			
	Flash	Data is transmitting between data logger and inverter			
	Off	Connection between data logger and inverter is abnormal			
LINK	On	Connection between data logger and server is normal			
	Flash	1.Data logger is under AP mode with cable connection or wireless connection			
		2.No network available			
	Off	Connection between data logger and server is abnormal			
STATUS	On	Data logger works normally			
	Off	Data logger works abnormally			

II. Trouble shootings

Phenomenon	Possible Reason	Solutions
Power off	No power supply	Connect power supply and ensure good contact.
RS485/422 off	Connection with inverter is	Check the wiring, and ensure that the line order comply with T568B
	abnormal	Ensure the stability of RJ-45.
		Ensure normal working status of inverter
LINK flash	Wireless In STA mode	No network. Please set network first. Please configure internet connection according to Quick Guide.
LINK off		Check logger working mode (Wireless mode/Cable mode)
	Data logger works abnormally	Check if the antenna is loose or falls off. If so, please screw to tighten.
		Check if the device is covered by the range of the router.
		Please refer to User Manual for further information or have the data logger tested with our diagnosis tool.
Status off	Data logger works abnormally	Reset. If the problem still exists, please contact our customer service.
		Check the connection of antenna
WiFi sign	al strength weak	Add WiFi repeater
		Connect via Ethernet interface

Note 1: Please check the status of these 4 LEDS 5 minutes later after the data logger is powered on.

Note 2: When screw or adjust the antenna, please note that only the metal part can be touched, and do not screw the plastic part, otherwise the antenna may be damaged.

Note 3: If the equipment still fails to work upon above solutions, please contact your device customer service.

III. Reset

Press the reset button with a needle or open paper clip and hold for a while when the 4 LEDs should be on. Reset is successful when 3 LEDs, except POWER, turn off.

H: Contact

If any technical problems, please contact us, with the following information in hand:

- Device model
- Serial number of data logger
- Number of inverters connected
- Problem description
- Screen shot of Status page