iGFSolar

User Manual

Ver 1.7

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I、Introduction

iGFSolar stand-alone monitoring software is a PC monitoring and management software aiming at single-phase on-grid inverter and single/three-phase off-grid inverter .It real-time monitors and manages the inverter mainly through the serial and USB communication. It displays the primary analogy data in intuitive data format, displays the real-time running status in energy flow graphs, records the main historical data in the form of a graph. Supporting sending mail and SMS alarm events, supporting turning on/off the inverter and resetting the inverter, supporting exporting and printing data and event logging.

Supported operating systems:

- Microsoft Windows 2000
- Microsoft Windows XP
- Microsoft Windows 7
- Microsoft Windows 8

II、Install and uninstall

1、Install

Click the program's installation icon, operate according to Figure 1 to Figure 8



Figure1 Installation guide



Figure2 Agreement license

🥏 Setup - iGFSolar	
User Information Please enter your information.	
<u>U</u> ser Name: <mark>penghualin</mark>	
Organization:	
penghualin	
IDBK	
	< Back Next > Cancel

Figure3 User Info

🤊 Setup - iGFSolar 📃 🗖 🗙
Select Destination Location Where should iGFSolar be installed?
Setup will install iGFSolar into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files\IDBK\iGFSolar Browse
At least 50.9 MB of free disk space is required.
< <u>Back</u> <u>N</u> ext > Cancel

Figure4 Target location

🧟 Setup - iGFSolar
Select Start Menu Folder Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Start Menu folder.
IDBK\iGFSolar Browse
IDBK

Figure5 Starting menu folder

🥙 Setup - iGFSolar 📃 🗖 🔀
Select Additional Tasks Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing iGFSolar, then click Next. Additional icons: Create a <u>desktop icon</u> Create a <u>Quick Launch icon</u>
IDBK

Figure6 Additional tasks

🥏 Setup - iGFSolar	
Ready to Install Setup is now ready to begin installing iGFSolar on your computer.	
Click Install to continue with the installation, or click Back if you want to review or change any settings.	
User information: penghualin penghualin Destination location: C:\Program Files\IDBK\iGFSolar Start Menu folder: IDBK\iGFSolar Additional tasks: Additional tasks: Create a desktop icon	
IDBK	Cancel

Figure7 Ready to install



Figure8 Install Finished

2、Uninstall



Find uninstalling iGFSolar icon in the Start menu, click OK to uninstall.

III、Using Instructions

The main interface of iGFSolar is as follows :

🕯 iGFSolar	₽ I	G	2017/05/12 16:43:31 🕙	00:01:44 ₹ - ×
🖵 Main	PV Power	Day Generation	Total Generation	CO2 Emissions
SysInfo	_			
Report				
Q Record	AC	≈/≈		😒 Load
🔅 Setting	<i>≝</i> ≸ PV	Batt	=/≈	
	1.00 0.75 0.50 0.25			Day Mon State Year State Total
	0:00 2:00 Daily Gen Pov	4:00 6:00 8:00 10:00 12:00 ver(W) 2017-05-12	14:00 16:00 18:00 20:00 22:00 2) 24:00

1、Communication Setting

Click on the system settings in the left side menu bar, click the inverter settings, the interface is as follows:



There are three communication protocols: GF3 / 3 series, HYB series and GF500-3000II series. GF3/3 for three-phase off-grid inverter, HYB for single-phase on/off-grid inverter, GF500-3000II for the second generation single-phase off-grid inverter. When selecting COM communication, you need to set the parameters in the serial port setting according to the device, as shown in the following figure, such as port number, baud rate, data bit, parity bit and stop bit. Click OK, you can return to the main interface to see whether the communication is successful.

🖥 iGFSolar	p 1	<u></u>		U 20	17/05/12	16:43:07 🗿 00:01:	20 룩	- ×
L Main	Public Paramet	rface Language Setting	nglish 👤		ОК			
SysInfo	Port Setting	Baudrate	Data	Bits		Parity	Stor) Bits
Report	Device	2400	8	-		No parity	1	-
_	GPRS	9600	8	<u> </u>	<u> [</u>	No parity 🚬	1	ОК
Q Record	Import Ext	ernal Setting File(Need to Re	estart)	Export Set	ting File	Restore Default Se	tting(Need to	Restart)
🔅 Setting		Browse		Save	AS		eccing	
Inverter Setting								
Remote Control								
System Setting								
Email Setting								
SMS Setting								

2. Scheduling turning on and off the inverter

Click the schedule setting , as bellows :

🖥 iGFSolar	1	O 2017/05/12 16:42	2:49 ⊙ 00:01:03 ₹ - ×
Main	Time Task Special Task		
_	Time Task		
SysInfo		Shutdown Time	Boot Time
	Sunday		
Report	Monday		
	Tuesday		
Q Record	Wednesday		
	Thursday		
🔅 Setting	Friday		
	Saturday		
Inverter Setting			
Remote Control	Other Setting		
Schedule Setting	Shutdown Inverter Ahead of Time to Ser	ad C ommand	
System Setting	Next Shutdown Time		
Email Setting	Next Boot Time		
SMS Setting			ок

1) Time Task

You can set the reasonable shutdown and boot time from Monday to Sunday .

2) Special Task

You can set the shutdown and boost time at any reasonable time.

IV、Functions Instruction

1、 Main interface

Displays the main real-time data、alarm status、 turns and power generation



graphs. As shown below:

1) Real-time display PV power, daily power generation, total power generation, carbon dioxide emission reduction

2) Real-time display the running state of the equipment in energy flow diagram.

3) Shows the daily power, monthly power generation, annual power generation, the total power generation curve.

2、System Info

There are seven submenus under the System Information menu. The AC information, PV information, bypass information, output information, battery information, device information, and other information. As shown below:



3、Report

There are three submenus under the report menu.daily reports, monthly reports and annual reports.



4、Record

There are three submenus under the record menu , data record , event

record , SMS record.

🖥 iGFSolar	P I	S 2017/05/12 16:45:25 S 00:03:37
, 🖵 Main	Date Inquire: 2017-05-12 Query	Save As Clear
SysInfo		
Report		
Q Record		No Data
Data Record		
Event Record		
SMS Record		
Setting 🔅		

、Email Setting

🕯 iGFSolar	p 1	<u> </u> 201	7/05/12 16:45:41 🧿 00:03:53	₹ - ×	
🖵 Main	Email Setting Recipient Email Address				
SysInfo	Email Setting Email Server	192.168.0.9			
Report	Email Port Email Address Sender	25			
Q Record	Server Requires Password Authentication	Yes			
🔅 Setting	Email Password				
Inverter Setting	Email Transmission is Encrypted Using SSL	No		Send Test Email	
Remote Control Schedule Setting	Gen Report				
System Setting	Delivery Daily Report Time(hh:mm)		Yes 16:37		
Email Setting	Delivery Monthly Report Time(dd:hh:mm)		Yes 12 16:40		
SMS Setting	Delivery Annual Report Time(mm/dd hh:n	1m)	Yes 01/12 16:40		
				OK	

a、Sender Setting:

Fill in the mail server, mail port and sender's email address. Mail server and port according to the corresponding mailbox to set, the port number is generally 25. If you select the password authentication option, you need to fill in the mailbox account and password. Then you can click to send a test message to see if the message sending function is normal. If you need to send the message content encrypted, you can select the SSL encryption option.

Note: When selecting SSL encryption to send, the port number needs to be changed to the corresponding port number.

b、Gen Report:

You can set whether to send reports and the sending time.

c、Recipient Mailbox Settings:

Fill in the user's mailbox to receive mail alerts or reports.

After the above three settings, when the device fails or alarm, the software can notify the user in the form of e-mail.

6、SMS Setting

🖥 iGFSolar	₽ ¹	U 2017	7/05/12 16:45:53 🕙 00:04:05	₹ - ×
🖵 Main	SMS Setting SMS Status			
SysInfo	SMS Setting Communication Port	None		
Report	When the Event Occurs to Send Short Message Alarm	Yes		
Q Record	Phone Number: "Country Code+Ph Phone Number: 1	one Number"	Event Setting	
📩 Setting	Phone Number 2		Event Setting	
Inverter Setting	Phone Number 4		Event Setting	
Remote Control Schedule Setting	Phone Number 5 Phone Number 6		Event Setting Event Setting	
System Setting Email Setting	Phone Number 7		Event Setting	ОК
SMS Setting	Test Setting			
	Test Phone Number		Send Test SMS	

🖥 iGFSolar	p 1		U 20	17/05/15 15:05:23 🕚 00:00	D:26 ₹ - X
🖵 Main	Public Paramet	ter Setting rface Language Setting Ei	nglish 🗾	ОК	
SysInfo	Port Setting	Baudrate	Data Bits	Darity	Ston Bits
Report	Device GPRS	2400 ¥ 9600 ¥	8 <u>-</u>	No parity _	
Q Record	Import Ext	ernal Setting File(Need to R	estart) Export Set	ting File Restore Default S	OK etting(Need to Restart)
🔅 Setting		Browse	Save	As	Setting
Inverter Setting					
Schedule Setting					
System Setting					
Email Setting					
SMS Setting					

After connecting the SMS module, select the communication port, the baud rate, data bit, parity bit, stop bit. The short message status interface will display the SMS cat connection status or information, as shown below :

🖥 iGFSolar	P	S 2017/05/15 15:05:04 S 00:00:07					
Main	SMS Setting SMS Status						
SysInfo	SMS Status						
	SMS Communication Status	Serial port failed to open					
Report	Module Type						
	Operators						
	Module Manufacturers						
Q Record	The Signal Quality	0					
	Software Version						
🔅 Setting	Short Message Center Address						
Inverter Setting							
Remote Control							
Schedule Setting							
System Setting							
Email Setting							
SMS Setting							
5 5							

Note : If your SMS cat is produced by EAST, its baud rate is generally 115200, data bit 8, check bit no, stop bit is 1. If you are not sure about these parameters ,you can send the corresponding AT command to query them through the serial debugging software.