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Geoprotek Tech. mainly focus on design and production of solar inverter, monitoring and control system. We, Geoprotek, will help and give the customers achieve the best solution and the best way to save and contribute to the Earth's environments. Wishing to give the Earth's environment never ending contribution!



GEO Solar Products

GEO Solar Products residential and commercial solar energy applications. The product range also includes solutions for Grid-Tied PV Inverter, Monitoring products, and Software in order to achieve optimal energy output and return on investment. Use GEO Solar power series products could bring you the more convenient and green life.

Mission Statement

With the combination of inverter, distributed control, energy monitoring, we provide a perfect total solution for PV system management using the our specialized field and full knowledge for the contributing to our environment and care making it to last long forever!



GS INVERTERS



GS CENTRAL BOX



GS COMBI



GS LOGGER



GS HOME TOUCH



SOFTWARE



VDE

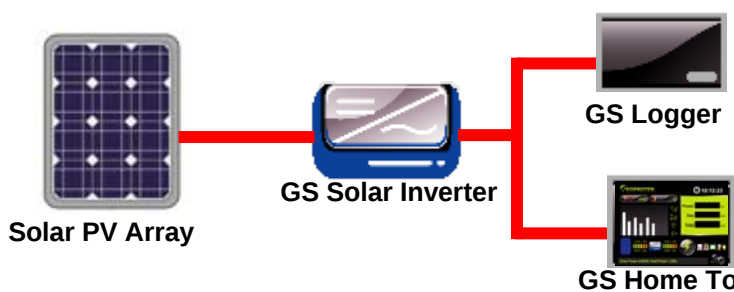


AS4777 DK5940

GEOPROTEK Solar Inverter

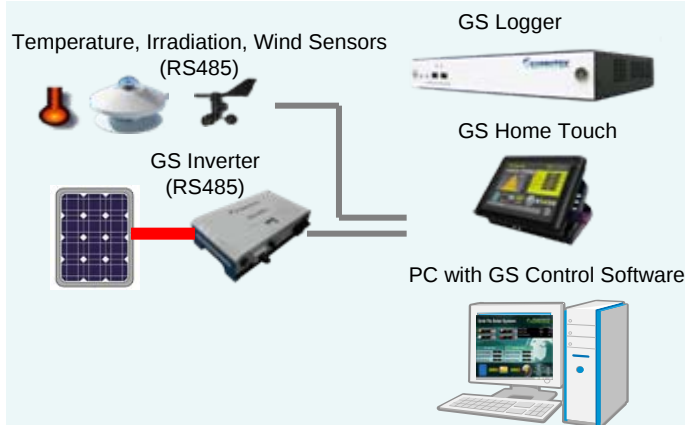
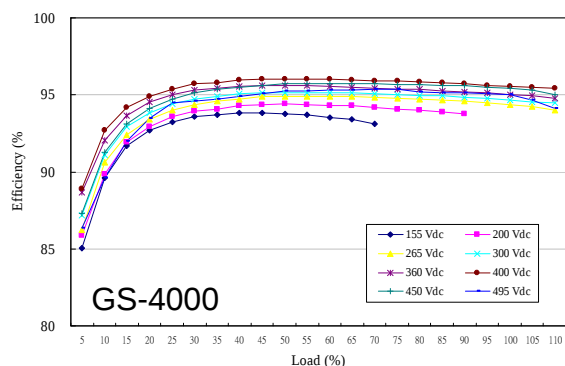
Grid-Tie, Transformerless, 1kW,1.5kW,2kW,3kW,4kW,6kW

GEO Solar Inverter range of single-phase covers 1.0,1.5, 2.0,3.0,4.0,and 6.0 kW. All inverters pass CE and VDE0126 certification. It has a super compact size and IP65 waterproof cabinet that can be resistant to rain, snow and dust. The MPPT tracking voltage range from 100 to 600VDC. It was designed for easy and quick installation, simple communication and maximum performance. It also provide the necessary Anti-Island protection and GFCI To prevent electrical hazard of user. The multiple and powerful monitor solution makes GS Inverter easy to use. GS Inverters can be monitored by GS Logger, GS Home Touch or a PC via RS485, Ethernet, or Bluetooth communication.



Specification:

	GS-1000	GS-1500	GS-2000	GS-3000	GS-4000	GS-6000
Maximum Input Power	1170W	1750W	2340W	3510W	4700W	6500W
DC Maximum Voltage	500 VDC					600VDC
MPPT Voltage Range	100 VDC ~ 500 VDC ± 5%	150 VDC ~ 500 VDC ± 5%				150 ~ 600 VDC ± 5%
DC Maximum Input Current	7.5 ADC	7.5 ADC	10 ADC	15 ADC	20A DC	30A DC
Maximum PV Array Short Circuit Current	11.25 ADC	11.25 ADC	15 ADC	22.5 ADC	30A DC	45A DC
DC Voltage Ripple	<3.5%					
Number of String Inputs/ Type	1 (Tyco or MC)				3 (Tyco or MC)	
PV Start Voltage	100 VDC ± 5%	150 VDC ± 5%				
AC Nominal Power	1000W	1500W	2000W	3000W	4000W	6000W
AC Maximum Output Power	1100W	1650W	2200W	3300W	4400W	6000W
AC Maximum Output Current	5A	6.6A	8.7A	13A	17.4A	26.1A
AC Nominal Voltage Range	198VAC, minimum/ 256VAC, maximum @230VAC					
AC Frequency	50/60Hz, auto selection					
Power Factor	>0.99					
Maximum Inverter Efficiency	95%	95%	95%	95%	96%	96%
European Inverter Efficiency	94%	94%	94%	94%	95%	95%
Dimensions : W × H × D (mm)	380x300x133	380x300x133	380x300x133	380x300x143	550x300x133	550x420x143
Weight (kg)	14	14	14	14	21	27
Operating Temperature	-25 to 55 °C					
Humidity	0 to 95%, non-condensing					
Power Consumption: standby/night time	<0.1W					
Heat Dissipation	Convection					
DC Switch	ON/OFF 20A					ON/OFF 30A
O/P current distortion	THD<5%, each harmonics<3%					





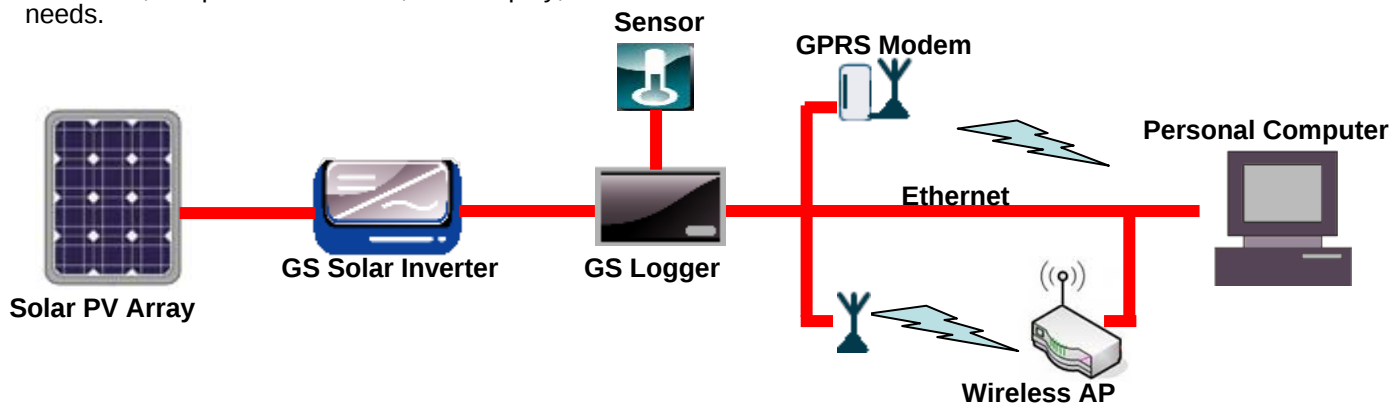
GEOPROTEK Solar Logger



Complete Monitor Solution for Your Solar System

Integrate Data-logger, Web-logger, Embedded PAC Solution

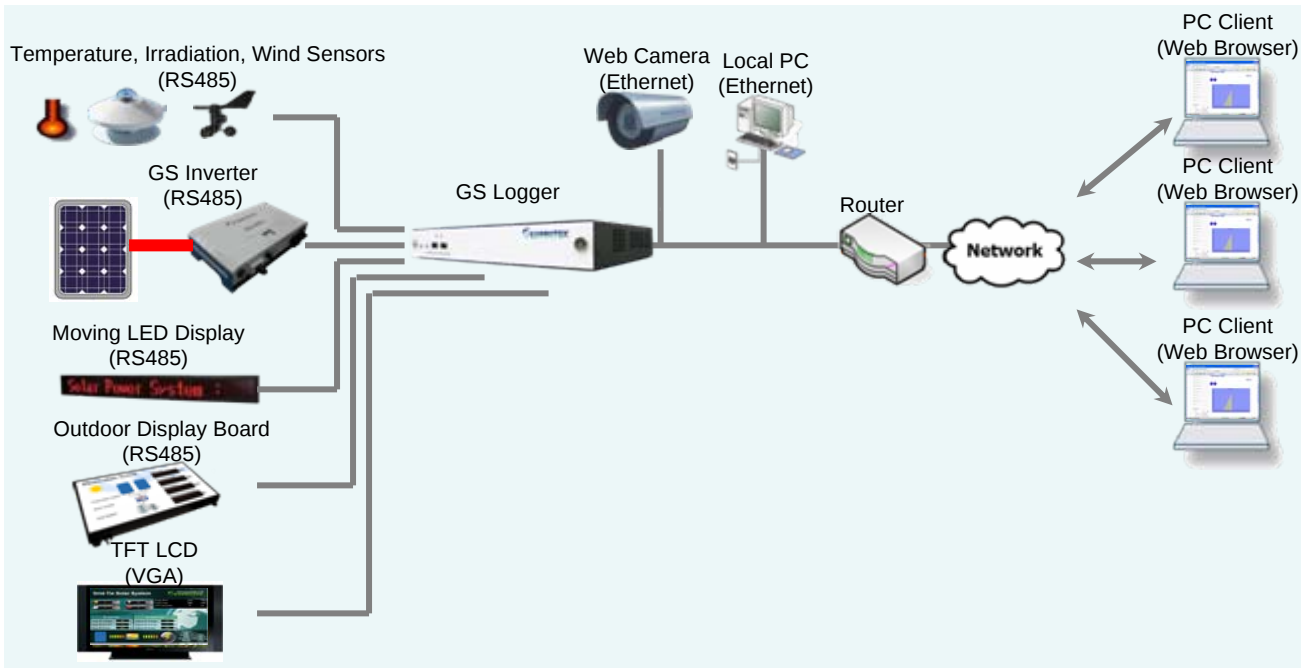
GS LOGGER is a complete and powerful solution for PV plant or PV demo site. It combine data logger, web logger, and graphic HMI function in one platform. The data logger function can log inverter data, alarm status, sensor data in CSV file that can be download from remote FTP. The build-in web server allow you to monitor from remote PC by internet browser anywhere. The graphic user interface allow you to see the real time data, chart, history review, event review, send alarm email and SMS report...etc. It allow you to customize the display screen for demonstration. GS LOGGER combine multiple function with great reliability that also integrates many peripheral products like Irradiation, temperature sensors, LED display, Web camera...etc to meet the customer needs.





Specification:

	GS Logger-CF		GS Logger-HD	
Maximum number of GS Inverters monitored	50			Features: •Graphic user interface •Measurement data storage •Access to PV plant data from web browser •Send alarm via e-mail/SMS •Download data from FTP •High system reliability •Auto reboot when power recovery •Customized display screen •Support picture and media play •Daily, weekly, monthly, yearly report generate •Dynamically add/remove monitoring devices •Real Time chart/ History Graph •Remote connect to central PC •Modular design for peripheral sensor, LED, meter...products.
Data Storage Space	2 GB		150 GB	
Inverter Communication	RS-485			
Communication Range	1000m			
Remote Communication	Ethernet			
Power Requirement	12V DC in with 100~240AC in, 60W AC-DC adapter			
Power Consumption	12~16W			
Operating Temperature	0 ~ +50 °C			
Dimensions	288 x 205 x 40 mm			
Weight	1800g			
Certification	CE, FCC class B			
IO	2x RS-232, 1x RS-485, USB ports (Ver2.0) x 6			
Support language	English/Chinese/German/Spanish/French/Italian			

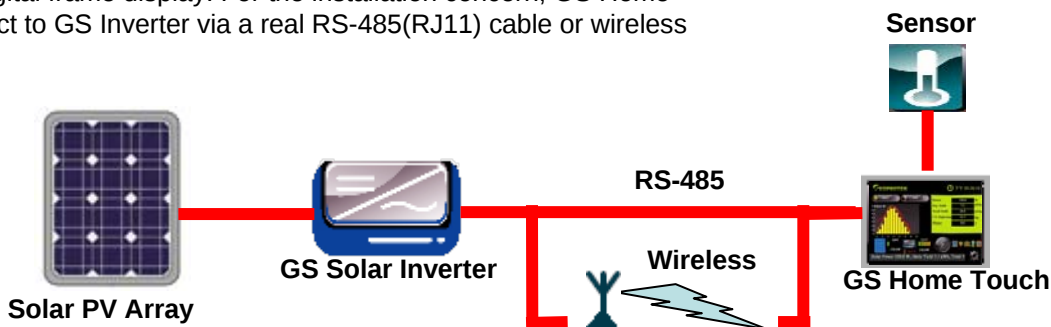




GEOPROTEK Solar Home Touch

Take care of your Home Solar System

GEO Solar Home Touch was a combination of data-logger, web-logger, and attractive touch HMI (human interface). It was a powerful and elegant monitoring device for your home solar system. GS Home Touch can read all the inverter data in real time (ex: V, A, kW, kWh, CO2 emission, money...etc), analyze, plot in chart, and review the history solar generation. All the data and reports will be automatically saved in .CSV file and you can download from remote FTP. The build-in web server allows you to monitor the data in remote PC by only the IE web browser include the daily, weekly, monthly and yearly report. Especially, GS Home Touch has a micro SD slot that you can download the pictures to take as a digital frame display. For the installation concern, GS Home Touch allows you to connect to GS Inverter via a real RS-485(RJ11) cable or wireless transmission.





Specifications:

	GS Home Touch
Inverter Communication	RS-485 / Wireless (Option)
GS Central Management Communication	Ethernet
Maximum number of GS Inverters monitored	20
Storage Space	2G
Power Requirement	5V DC in with 100~240AC in, 15W AC-DC adapter
Power Consumption	1.3A
Operating Temperature	0 ~ +60 °C (+32 ~ +140 °F)
Dimensions	152 x 112 x 33 mm (5.98 x 4.41 x 1.3 inches)
Weight	374g
Certification	CE, FCC, VCCI
Display Type	5.7" TFT LCD
Display Resolution	640 (W) x 480 (H)
Type	Analog Resistive
Support language	English/Chinese/German/Spanish/French/Italian

Function Features:



Read data and status from Inverter



Event review and alarm status check



History graph and real time chart display



Sending Email & GSM report and alarm status



Support Irradiation and temperature sensor



Digital photo frame display function



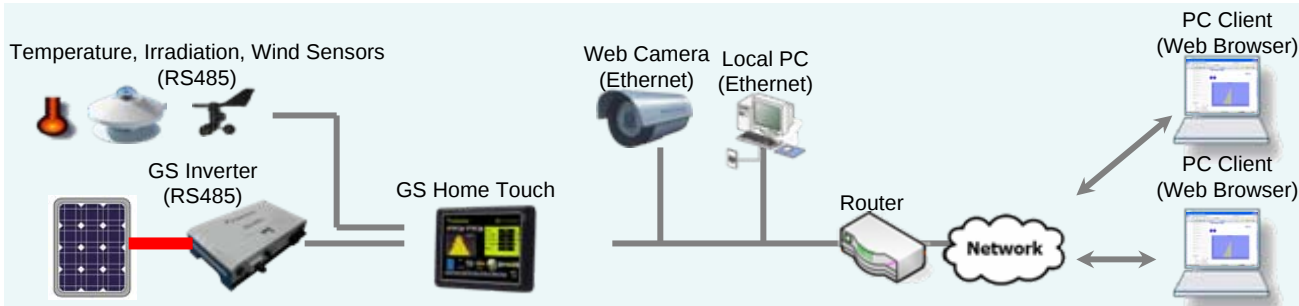
Money and CO2 emission calculate



Remote monitoring by GS Central Management



Build-in web server allow to remote review by IE





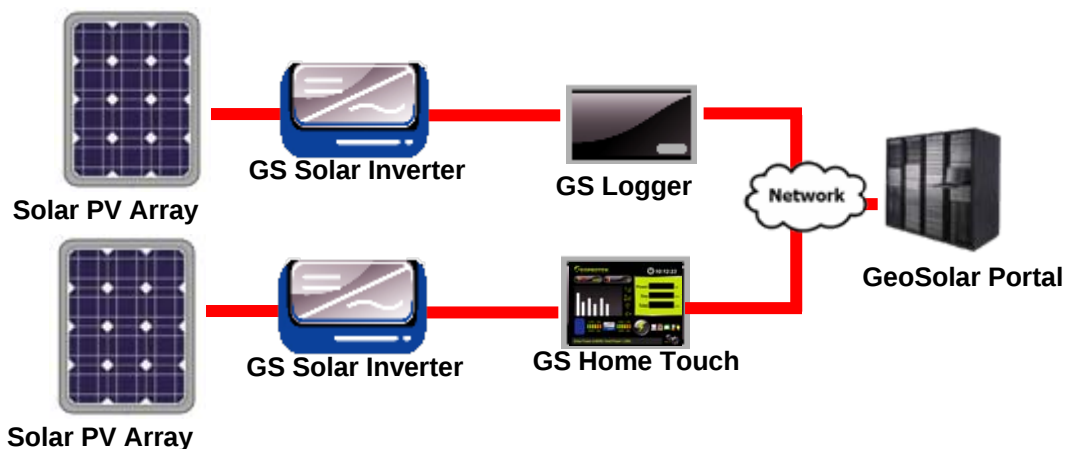
WWW.GeoSolarPortal.COM



GEO Solar Portal

Level Management, monitoring and presentation of Solar systems.

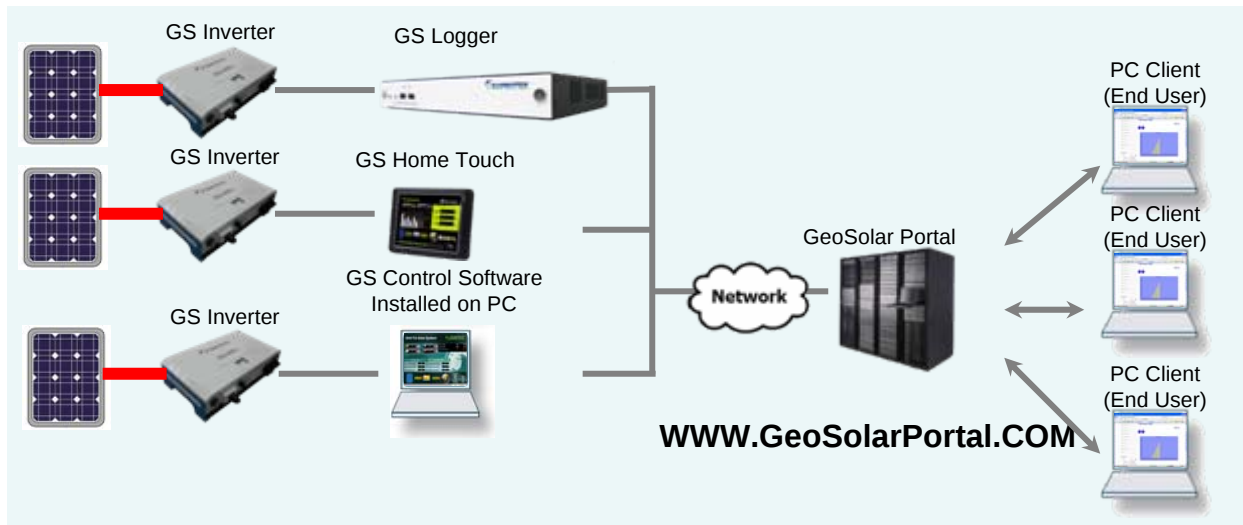
GEO SOLAR PORTAL is database platform that allow system integrator to management all of their solar systems and end user to monitor or analyze their data in any place. GeoSolar Portal supports a GS Logger, a GS Home Touch, a PC with GS Control Software, or a GS Central Box. Managers can change the display web page, configure the plant profile, view all the plants data, check the event log, or configure the email report by themselves. Users can view the real time data, analyze monitoring data or make data comparison.





Specification:

Technical Data	GeoSolar Portal
Recommended Browsers	Internet Explorer Version 7 or up, Safari
Supported Platforms	GS Logger, GS Home Touch, GS Control Software, GS Central Box
GeoPortal Account	One MAC ID for one plants in GeoSolar Portal
Plant Profile	Overview the key properties of the Solar System and attach the system picture on the profile
Annual Comparison	Quick yield overview of the entire operating period
Plant Event Log	Access to messages regarding plant events
Device Overview	Properties and parameters of the devices in the solar system
Custom Web Page Design	Allow to change pictures in turn on display web page
Energy Report Type	Daily, Monthly, Yearly and Overall Report
Data Buffering When Connection Broken	7 Days in end device, Auto upload once the connection recovery
Output Report Data Type	Text file (.CSV format)
Information Report	Daily report on energy yield, maximum output, CO ₂ reduction, via Email, and can automatically be send from GeoSolar Portal
Event Report	Send Event Report once alarm or errors occurs
User Levels	Administrator Level: Can management multiple system integrators, determine the configuration rights System Integrator Level: Can management multiple PV plants End User Level: Can monitor the PV plants data.

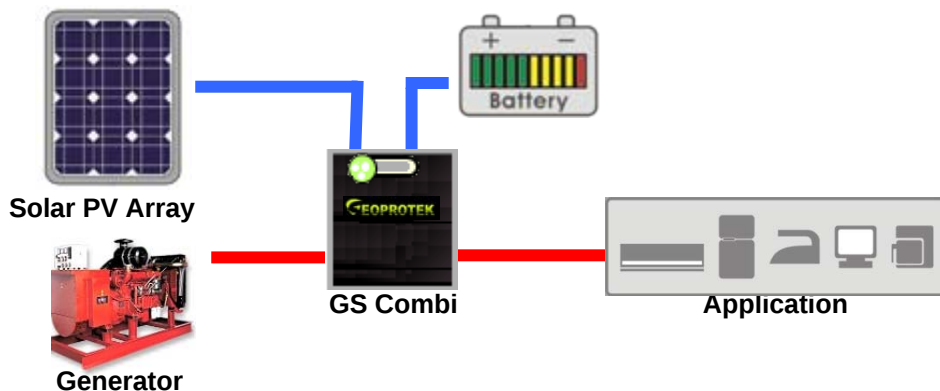




GEOPROTEK Solar Combi

Off-Grid Solar Inverter, charger,
transfer switch and solar power source in one
1kW, 1.8kW, 2.5kW, 4kW pure sine wave inverter

The GEO Solar Combi is the ideal solution for off-grid and grid back-up systems. It is a powerful all-in-one solution, delivers unsurpassed clean true sine wave output power and combine with a selectable multistage battery charging current. Applicable for any kinds of load such as home applications, consumer electronic and office equipments. The compact and modular design make utility interactive installations easier and more cost effective. It is a high quality product that offers the best price/ performance ratio in the industry.





Specification:

	GSI-1012 / GSI-1012U	GSI-1824 / GSI-1824U	GSI-2524 / GSI-2524U	GSI-4048 / GSI-4048U
Nominal AC Output Voltage	230VAC Pure Sine Wave / 110VAC Pure Sine Wave			
Nominal Output Frequency	50Hz(220VAC) / 60Hz(110VAC)			
Continuous AC Output	1000W	1800W	2500W	4000W
Surge Output Capacity	2000W	3600W	5000W	8000W
Output Voltage Harmonic Distortion Factor	< 3%			
Power Factor	-1 to 1			
Input AC Voltage (Range)	230VAC(175~275VAC) / 110VAC(90~130VAC)			
Input AC Frequency	50Hz(220VAC) / 60Hz(110VAC)			
Maximum Input Power	2500W	4500W	5500W	8500W
Maximum Input Solar DC Voltage	60VDC			150VDC
Maximum Solar Charging Current	50A			
Input Battery Voltage (Range)	12VDC (10.5~15.5VDC)	24VDC (21~30.5VDC)		48VDC (41~62VDC)
Maximum Battery Charging Current	50A (adjustable)			
Charging Voltage	13.8VDC	28.2VDC	28.2VDC	55.2VDC
Peak Efficiency	90%			
Transfer Time	12ms			
Internal Consumption with No Load (Standby)	36W (<6W)	36W (<6W)	36W (<6W)	42W (<8W)
Device Protection	short-circuit, overload, over-temperature			
Interface	LCD Display, 5LEDs			
Dimension: W x H x D (mm)	305 x 500 x 164			338 x 550 x 163
Weight	11.5 kgs	12.0 kgs	12.5 kgs	14.0 kgs
Ambient Temperature Range	0 ~ 40 °C			
Relative Humidity	0 ~ 90%, non-condensing			





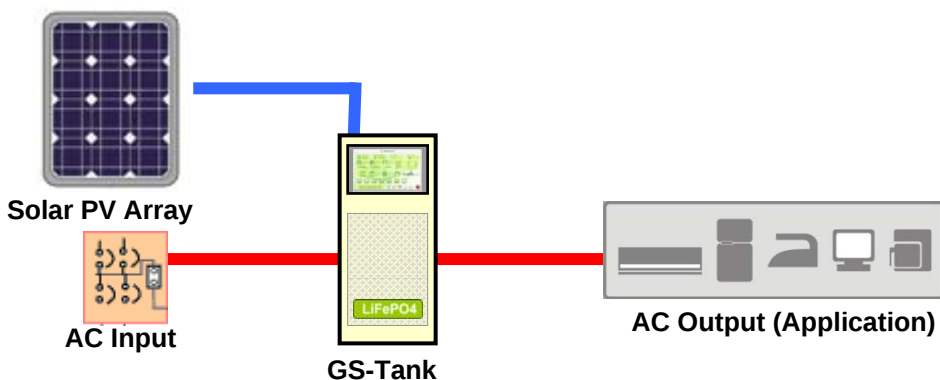
LiFePO₄

GEO Energy Storage Tank

LiFePO₄ Battery Pack(90Ah~360Ah), Timer Switch
Solar charger / Inverter, AC charger, 15" Touch LCD



GEO Energy Storage Tank (GEST) integrated lithium-ion batteries (LIBs) currently represent the state-of-the-art technology in high energy batteries. With high power density and superior cycling performance, GEST is a great solution for solar system energy storage and home power back up system (UPS). There is a 24 hr timer switch on the AC Input side, that allows you to determine when to use the grid power and when to use the battery power. During the off peak hours (or low electricity fee time), the home application use the power from the grid (AC input) and charge to the battery. In the peak hours (or high electricity fee time), the application use the power from the battery. The solar system also can charge to the battery. It can reduce the peak hours power usage and save great money from the difference of electricity fee.





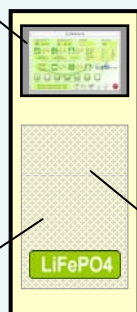
Specification:

	GEST-1800 / GEST-1800U	GEST-2500 / GEST-2500U	
Continuous AC Output	1800W	2500W	Features:
Surge Output Capacity	3600W	5000W	
Nominal AC Output Voltage	230VAC Pure Sine Wave / 110VAC Pure Sine Wave		
Nominal Output Frequency	50Hz(220VAC) / 60Hz(110VAC)		•Saving electricity spending by auto switch utility AC power at peak hours to AC power from inverter supplying by battery collecting and storing solar energy
Input AC Voltage (Range)	230VAC(175~275VAC) / 110VAC(90~130VAC)		
Input AC Frequency	50Hz(220VAC) / 60Hz(110VAC)		
LiFePO4 Pack Voltage	24V		•Lithium Iron Phosphate technology, clean energy, long service life.
LiFePO4 Pack Capacity	GEST-xxxx-90: 90Ah (2160Wh) GEST-xxxx-180: 180Ah (4320Wh) GEST-xxxx-270: 270Ah (6480Wh) GEST-xxxx-360: 360Ah (8640Wh)		
DC/AC Peak Efficiency	90%		
Transfer Time	12ms		•Environmental friendly, no pollution, energy saving and reduce CO2 emission.
Maximum Solar Input Power	4500W	5500W	
Maximum Input Solar DC Voltage	60VDC		
Maximum Solar Charging Current	50A		•Computerized, visual operating system, simple and user friendly user interface, display information (V, A, kW, kWh, CO2 emission, money saving...etc)
Solar Charging Voltage	29.2VDC		
Dimensions: W x H x D (mm)	759 x 600 x 1721		

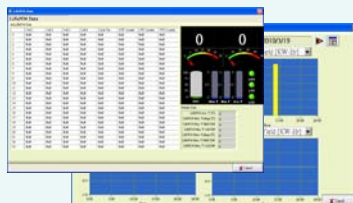
15" Touch & Friendly HMI



LiFePO4 Battery Pack



Battery Status Tracking



Electricity Outlet



Charger & Inverter





GEOPROTEK Solar Central Box

Grid-Tie Solar Inverter, Three Phase, 60Hz
24kW~72kW, 96 efficiency, Touch LCD

GEO Solar Central Box integrated high efficiencies solar inverter for large PV project. A completely new user interface features a large touch screen LCD panel that provides a graphical view of the daily plant production as well as the status of the inverter and the utility grid. With the optional GS Central Management Software, users can now choose Ethernet based communications on central PC. Designed for easy installation, operation and performance monitoring, the new GEO Solar Central Box is the ideal choice for your large scale PV plant.

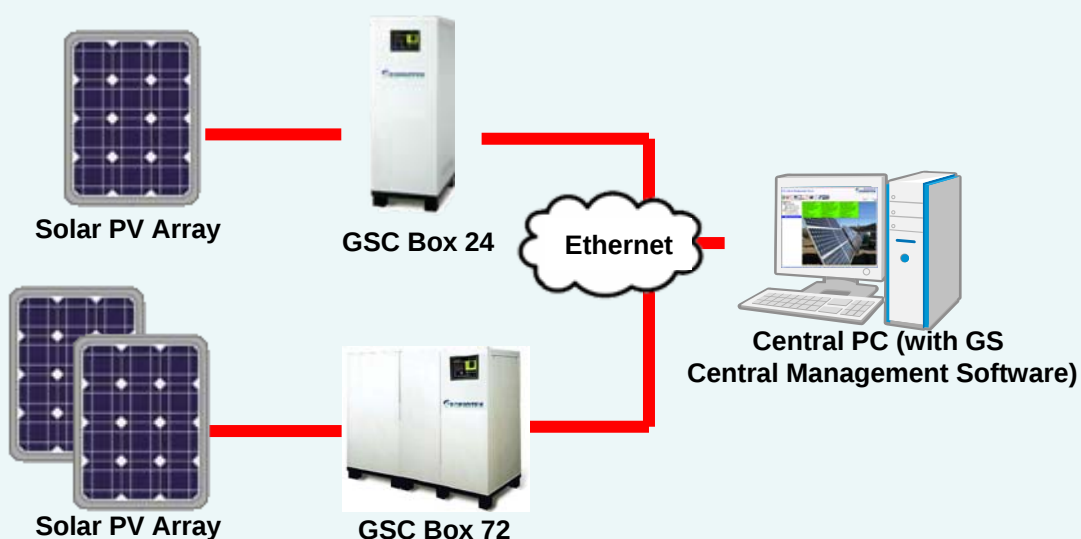


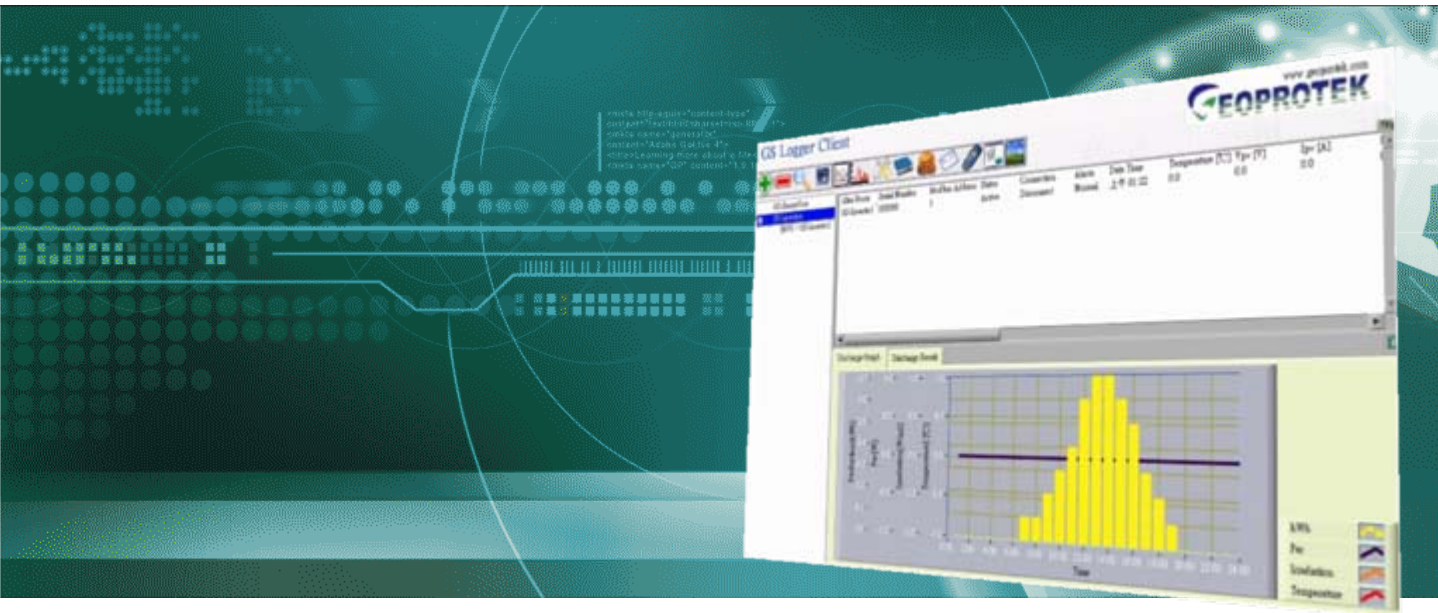


Specification:

	GSC Box 24	GSC Box 48	GSC Box 72
Nominal AC output power	24 kW	48 kW	72 kW
Nominal AC Voltage	3 phase 230Vac	3 phase 230Vac	3 phase 230Vac
AC Frequency	50/60Hz, auto selection	50/60Hz, auto selection	50/60Hz, auto selection
DC Maximum Voltage	500V	500V	500V
DC Maximum Input Current	120A	240A	360A
MPPT voltage range	150 to 500Vdc $\pm$ 5%	150 to 500Vdc $\pm$ 5%	150 to 500Vdc $\pm$ 5%
DC voltage ripple	< 10%	< 10%	< 10%
O/P current distortion	THD<5%, each harmonics<3%	THD<5%, each harmonics<3%	THD<5%, each harmonics<3%
Power Factor	>0.99	>0.99	>0.99
Initial feeding voltage	150V $\pm$ 5%	150V $\pm$ 5%	150V $\pm$ 5%
Peak Efficiency	96.2%	96.2%	96.2%
CEC Weighted Efficiency	96%	96%	96%
Operating Temperature	-25 to 55 °C	-25 to 55 °C	-25 to 55 °C
Cooling	Variable-speed forced air	Variable-speed forced air	Variable-speed forced air
Dimension W x H x D in cm	200 x 85 x55	200 x 170 x55	200 x 255 x55

Optional: GS Central Management Server

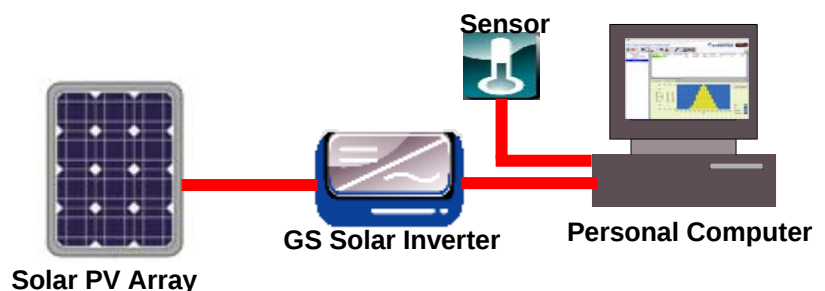




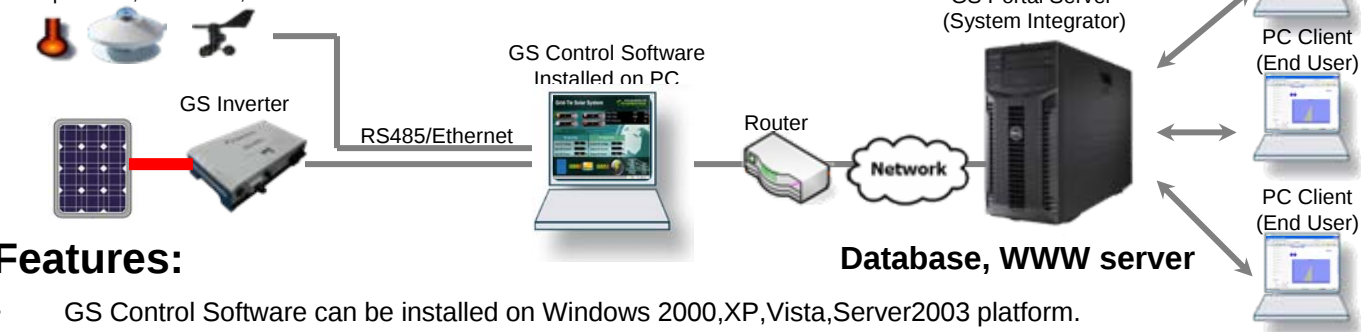
GEOPROTEK Solar Control Software

Monitor your Solar System on PC

GS Control Software is used to monitor data from GS Inverter on PC. You can read the Vpv(V), Ipv(A), Ppv(W), kWh, Temperature, Efficiency, Alarm Status, Fac, Zac...etc information from GS Inverter. You can connect your PC to GS Inverter via RS-232(with a RS-232 to RS-485 converter), USB (with an USB to RS-485 converter), Bluetooth, or Ethernet. It also support peripheral sensors like Irradiation, temperature, or wind speed/direction. As you connect to the internet, the software can send Email and GSM message automatically as alarm occurred or report time. For maintenance or management need, GS Control Software can send data to the GS Portal Server. User can review the data on the web site only by an IE web browser.



Temperature, Irradiation, Wind Sensors



Features:

- GS Control Software can be installed on Windows 2000, XP, Vista, Server 2003 platform.
- You can add/remove/modify the monitoring inverters, you can connect up to 50 inverters.
- You can customize the display screen include the background image, data display position, format, color even the data source that provide the great flexibility to meet customer need.
- All raw data, daily, weekly, monthly, yearly reports will be saved in Excel file (.CSV), you can download it from FTP.
- The software integrates many peripheral products like Irradiation, temperature sensors, LED display, Web camera...etc to meet different customer needs.
- Build-In Web Server that allow user to review the data via IE web browser in remote PC.



Read data and status from Inverter



Event review and alarm status check



History graph and real time chart display



Sending Email & GSM report and alarm status



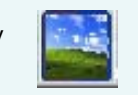
Support Irradiation and temperature sensor



Remote monitoring by GS Central Management



Digital photo frame display function



Customized display screen for customers

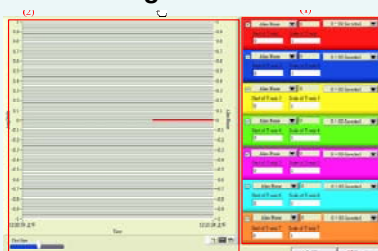


Build-in web server allow to remote review by IE

Main HMI



Diagram



Display Screen

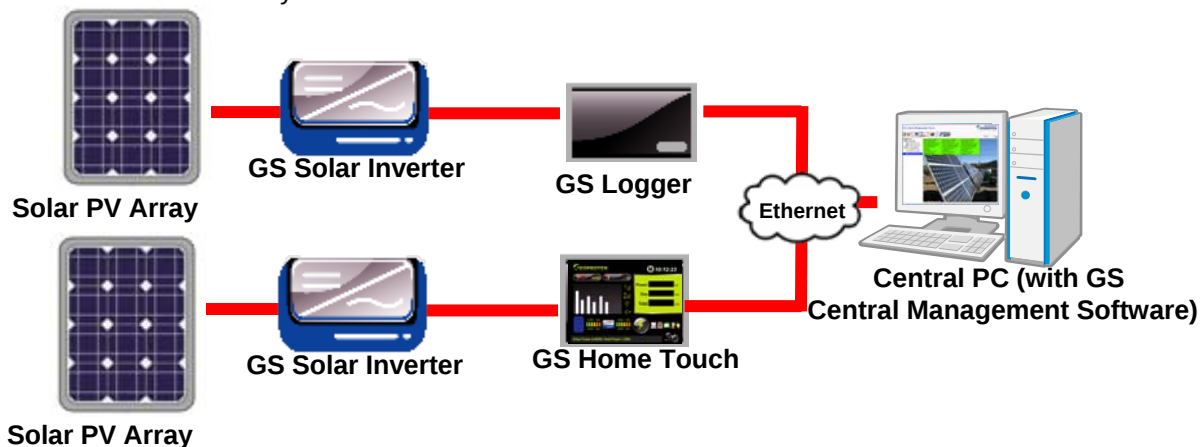




GEOPROTEK Solar Central Management

Connect multiple GS Loggers and GS Home Touch in central PC

GEO SOLAR CENTRAL MANAGEMENT SOFTWARE is the best solution for system manager to manage multiple GS Loggers or GS Home Touches in central PC. You can use in a subnet, or remote devices can use fixed IP or dynamic IP send data to the central PC. The software allow you to monitor 50 devices at the same time. All the data on remote device can be stream to the central PC include daily, weekly, monthly and yearly report. As an alarm occurred, the device in the table will change to different color that you can review it easily and quick response to the event. It's the best solution for central management distributed solar system in a central control center.



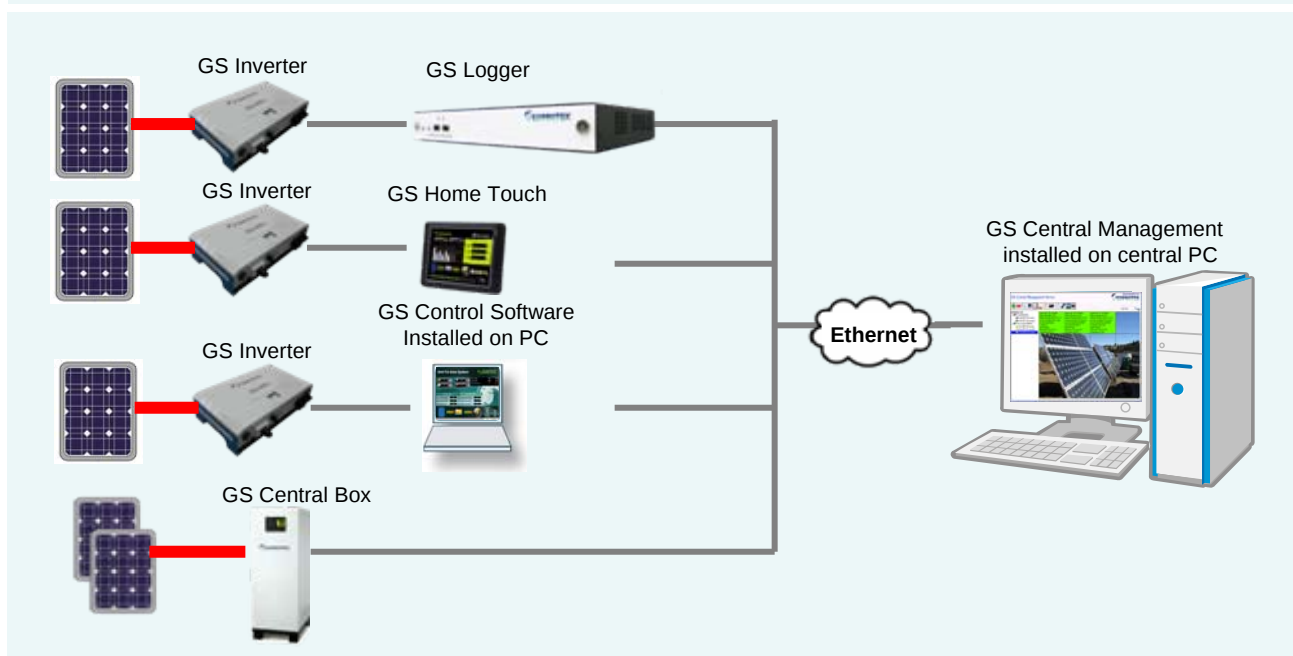


Specification:

	GS Central Management Software
Communication Method	Ethernet / TCP IP
System Requirement	Windows XP or Windows Server 2003
Memory Requirement	1G
Maximum number of Station monitored (GS Logger, GS Home Touch, GS Central Box, or GS Control with PC)	50

Features:

- Install on Windows Base Platform (support Windows 2000, XP Professional, Vista)
- Able to connect up to 50 GS Logger or GS Home Touch
- Monitoring Real time Solar System data
- Real Time display chart, History record review
- Alarm and Event review (Real Time and History)
- Analyze and compare solar system efficiency and yield.
- Email and GSM report
- File save in Excel file (.CSV)



GS Inverter Communication Card



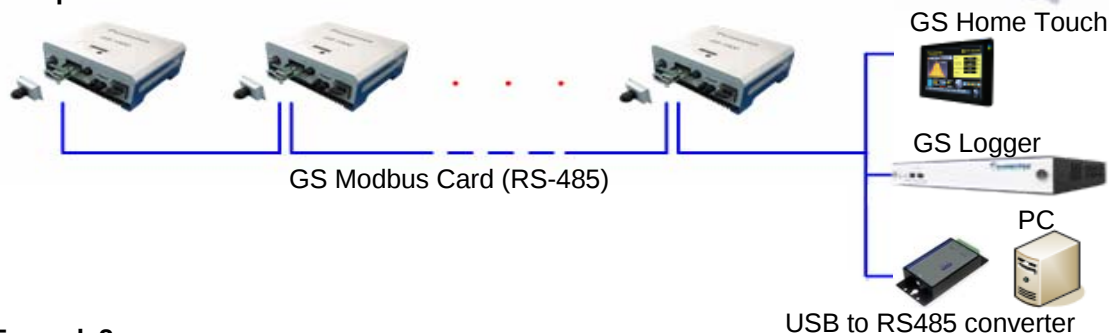
GS RS485 MODBUS CARD

GS RS485 MODBUS card is compact and easy for installation into the inverters. The embedded RS485 connector supports 2 sets of RS485 transfer channel for serial connection of inverters. Or it can connect the inverter directly to PC for inverter performance monitoring. Transmission mode full duplex and half duplex supported.

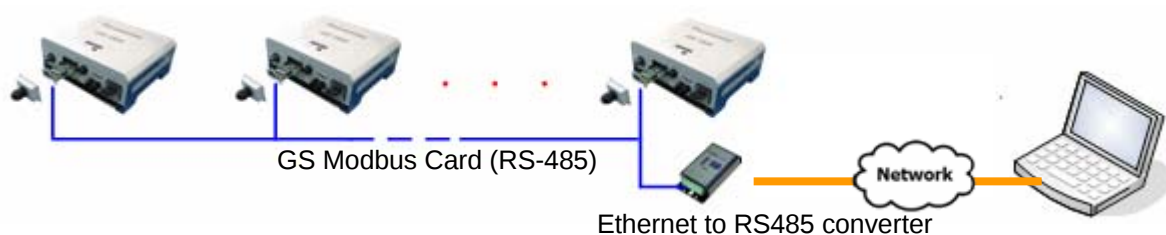
- RJ11 interface Friendly connected.
- Excellent transmission quality 9600bps.
- Flexible registered setting.



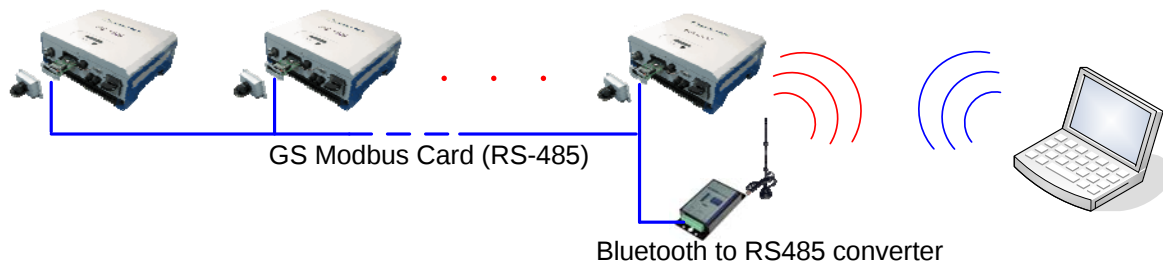
Example1:



Example2:



Example3:





Supported Peripheral Products

Outdoor Display Board

In some cases, customer needs a outdoor display board to display the solar system production information. GEOPROTEK provide display board that can connect to GS Logger or PC via RS-485. The board display output power, accumulated output, solar irradiance and reduction of CO2 emission with IP 65 water proof covering.



Moving LED Display Panel

In many case, the Moving LED Display Message is required to display normal message and interrupt message. GS Control software provide the function to set the normal display messages and interrupt solar system information. You can customize the information content and data source in GS Control or GS Logger.



Seven Segment LED Display

GEOPROTEK provide different size and characters Seven Segment LED Display for demonstration board. You can connect to the display board via RS-485 and the value will change according to the data source you selected. The device supports GS Logger, GS Central Management, and GS Control Software.



GSM/GPRS Modem

GSM/GPRS Modem can be used in GS Logger/GS Control Software/GS Central Management. It is used in sending alarm message or report when GS Logger or GS Control software detect the error or fail from GS Inverter. You can put the SIM Card to the modem and set the multiple phone numbers you need to send in the software that provide the real time message from remote cell phone.



GS Web Camera

GS Web Camera is an "Outdoor Infrared Internet Camera", it provided the necessary real-time monitoring to see the security protection of the solar power system and combined with the Web images of GS Logger. Users do not need to set any IP address only using the network cable connected to the home or office network (LAN) equipment, it plug and play and enter ID and password to begin the video monitoring. Do not have to worry about complex network configuration whether they have a fixed IP. It's a user friendly surveillance camera image that suitable for remote system monitor.





Supported Connected Sensors

E20 SILICON Irradiation Sensor (with Amplifier)

- Low cost irradiation sensor
- Sensitivity : Typical $48 \mu\text{V/W/m}^2$
- Linearity : Maximum deviation of 1% up to 3000 W/m^2
- Accuracy : +3%
- Spectral Range : 400~1100nm
- Response Time : Typical 3us
- Operating Temp : $-25^\circ\text{C} \sim +85^\circ\text{C}$



DELTA OHM LP PRYA 03 Irradiation Sensor (with Amplifier)

- Typical sensitivity: $10 \mu\text{V/(W/m}^2)$
- Impedance : $33 \Omega \sim 45 \Omega$
- Measuring range : $0 \sim 2000 \text{ W/m}^2$
- Viewing field : $2\pi \text{ sr}$
- Spectral field : 305 nm ~ 2800 nm W/m^2 (50%)
- Operating temperature : $-40^\circ\text{C} \sim 80^\circ\text{C}$
- Response time : <30sec



PT100 Temperature Sensor (with Amplifier)

- Measurement of Temp. : $-30^\circ\text{C} \sim 120^\circ\text{C}$
- Accuracy : $\pm 0.5^\circ\text{C}$
- Water resistance sensor
- RS-485 Interface (Modbus)
- DIN case : 96X48mm



Wind Speed/ Wind Direction Sensor (with Amplifier)

- Wind Speed : Wind Cup and magnetic switch
- Wind Direction : Wind Vane and potentiometer
- Wind Speed : $0 \sim 75 \text{ m/s}$
- Gust Survival : $> 80 \text{ m/s}$
- Wind Direction : $0 \sim 360^\circ$
- Wind Speed : $\pm 1 \text{ m/s}$ ($0 \sim 20 \text{ m/s}$), $\pm 5\%$ ($> 20 \text{ m/s}$)
- Wind Direction : $\pm 7^\circ$





Communication Converters

RS-232 to RS-422/485 Isolated Converter

- Automatic data format configuration.
- Auto direction flow control on RS-485.
- Auto baud rate switching from 300bps to 115.2Kbps.
- 3000V DC isolated protection.
- Surge protection on RS-422/485 data lines.
- Power/TX/RX mode LED indicator.
- Support screw terminal and external DC power adaptor.



Ethernet to 485/232 Converter

- RS-232/422/485 all-in-one serial interface.
- Auto-detecting 10/100Mbps Ethernet interface.
- In Server mode supports individual client sessions for security.
- Virtual COM drivers for Windows NT/98/ME/2000/XP/Vista/Window 2003/CE/Server x64.
- Auto direction flow control on RS-485.
- Supported baud rate up to 230.4 Kbps.
- Support intranet and internet system setting function.



USB to 485 Isolated Converter

- Full compliance with the USB V1.0 and 2.0 specification.
- Auto data format detecting.
- Auto direction flow control on RS-485.
- Auto baud rate switching from 75bps to 1228800bps.
- Direct power from USB port , no external power necessary.
- 3000V DC isolated protection.
- Surge protection on RS422/485 data lines.
- Driver support: Windows 98/ME/2000/XP/CE3.0, and Linux, and Mac OS.



Bluetooth to 485 Converter

- Bluetooth V1.2 Class 1 compliance. (2.5mW/4dBm)
- Bluetooth interface compatible with PDA and PC-Base system.
- Transmission range open filed 100M .
- Bi-directionally RS-485 signals communication.
- Support all common baud rate from 1.2K to 256Kbps.
- RS-232/422 and RS485 signal auto switching.
- Master/Slave connection mode selectable.
- Surge protection on RS-422/RS485





Supported Digital Power Meter

DC Power Meter (MP-84DH)

- Max. display 8 digits (KWH)
- Max. Display 4 digits can change V,A,KW
- PTxCT rate free setting
- RS-485 interface, Din case 96x48mm

Order Code **MP84DH-**

Input DCV

1: 0~10V, 2: 0~100V, 3: 0~300V, 4: 0~500V

Input DCA

1: 0~10A, 2: 0~15A, 3:0~20A, 4: 0~50A, 5: 0~75A, 6: 0~100A

Power Supply.

1: AC 115/230V±10%, 50/60Hz



AC Power Meter (MP-12THR, MP-13THR, MP-33THR, MP-34THR)

- Max. display 8 digits (KWH)
- Max. Display 4 digits can change V,A,KW
- PTxCT rate free setting
- RS-485 interface, Din case 96x48mm

Order Code **Model-**

Model Name

MP12THR: 1Φ2W

MP13THR: 1Φ2W

MP33THR: 3Φ3W

MP34THR: 3Φ4W

Input ACV

1: 120V, 2: 240V, 3: $\sqrt{3}$ 120V/120V, 4: $\sqrt{3}$ 240V/240V

Input ACA

1: 0~10A, 2: 0~25A, 3:0~50A, 4: 0~100A, 5: 0~200A, 6: 0~400A

Power Supply.

1: AC 115/230V±10%, 50/60Hz



Multi Power Meter (CP500)

- Display of all the electric parameters V, A, W, Var, VA, PF, Hz, WH, VarH ect.
- True RMS conversion.
- Maximum function.
- Field programmable PT and CT ratio.
- Memory for all setup and energy data.

Order Code **CP500-**

Input ACV

1:600VL-L / 347VL-N

Input ACA

1: 0~10A, 2: 0~25A, 3:0~50A, 4: 0~100A, 5: 0~200A, 6: 0~400A

Power Supply.

1: AC 90~260V, 50/60Hz, 2:DC 24V, 3:DC 120V



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