

PROFESSIONAL SOLAR POWER SOLUTION PROVIDER



Future Green Technology Co., Ltd.

Specializes in designing, producing and marketing **batteries** and **solar panels** to provide green energy supply globally.

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COMPANY INTRODUCTION

We are a company with two factories called Future Green Technology based in Guangzhou China. FGET provides the solar power system and kinds of batteries globally.

Future Green Technology is your personal home clean energy solution provider. This company is a future oriented emerging company, is committed to providing clean energy globally.

We manufacture and supply all kinds of VRLA batteries and solar modules for residential and commercial solar power systems. We also design and assemble both standard and customized energy storage solutions for the customer's individual requirements. Product could match the certificates of CE, TUV, and so on for different market requests. Products are widely applied to areas like industrial, transportation, finance, telecom, government, etc.

FGET is committed to winning the profit with you from the unlimited and free renewable energy source. Our target is to use the maximum available energy at an affordable cost.



CHOOSE US



Innovative battery core technology



Highly automated production process



Strict quality management system

CHOOSE GREEN FUTURE

Active and enterprising elite team



Perfect after-sales system

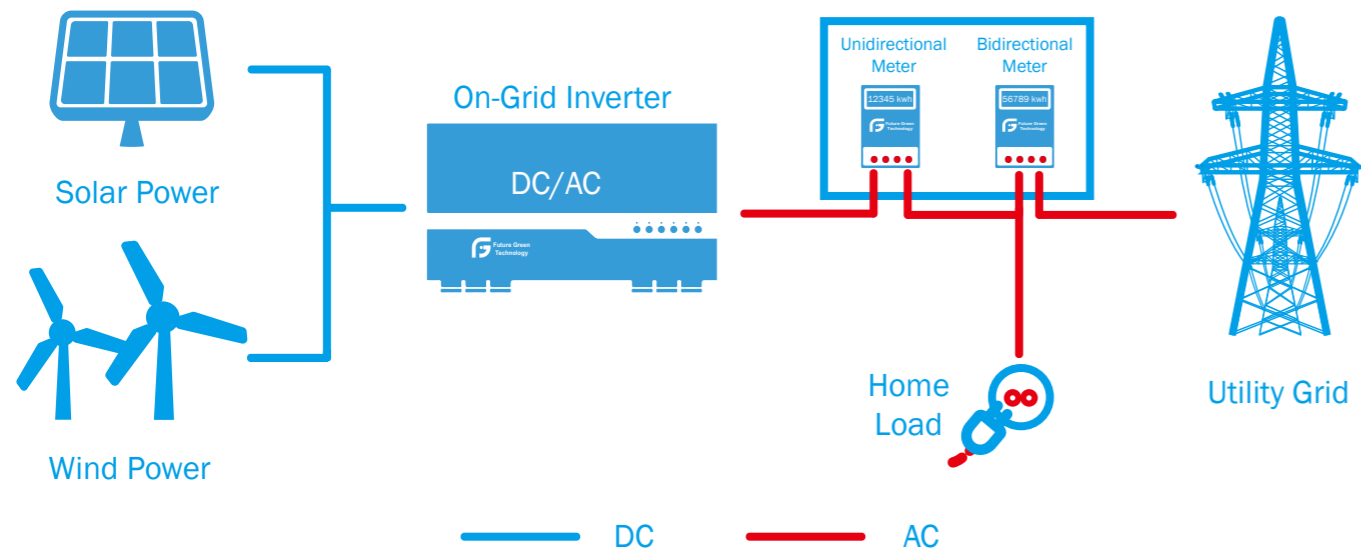


Green energy supporters with attitude



SYSTEM

ON-GRID SOLAR SYSTEM



Definition:

Grid-based systems are solar photovoltaic systems that generate electricity only when the public grid is available. They must connect to the grid to work. They can return excess electricity generated to the grid when you produce too much, which allows you to credit it for future use.

Advantages:

On-grid solar systems are very cost-effective and easy to install.

Businesses can recoup the cost of their investment by offsetting electricity bills in just 3-8 years. A business can completely depreciate the whole value of the project in approximately 4 years.

Residential user and business owners can earn a passive income for the surplus energy generated by the system.

Disadvantage:

These do not provide electricity during a network outage.

Applications:

Businesses can rely on on-grid solar systems to meet their daily requirements, as well as earn income from the excess power generated. On bright sunny days, buildings can generate enough solar energy to power appliances, lights, water heating systems, etc.

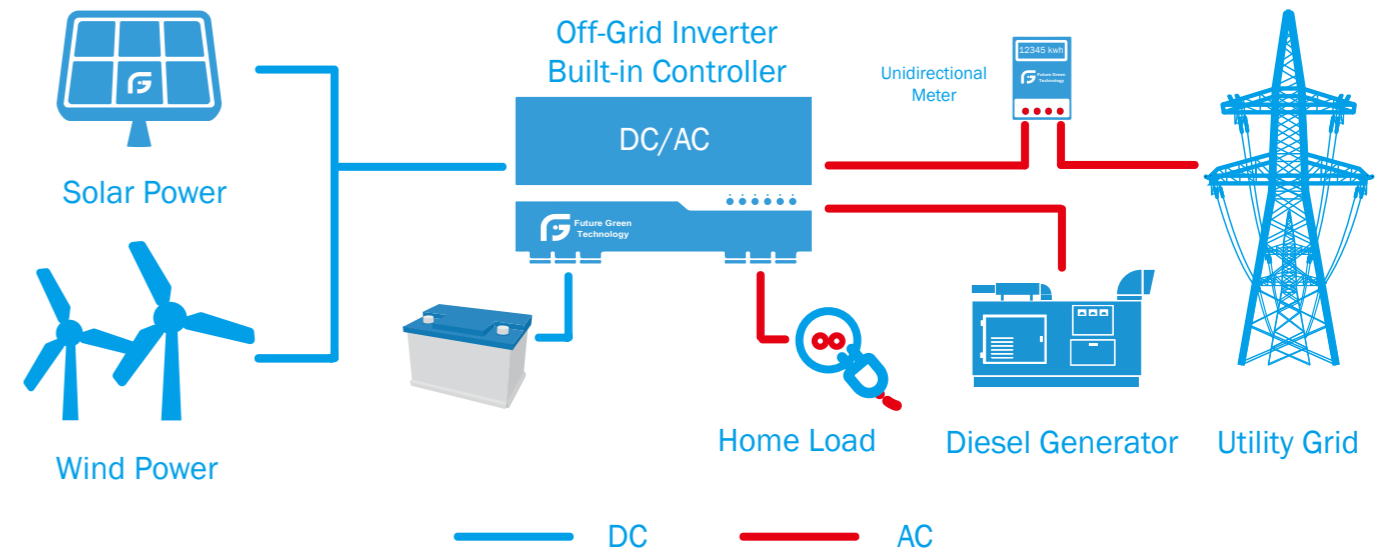
Equipment:

- Solar Modules
- Grid-Tie Inverter or Micro Inverters
- Power Meter
- Solar Panel Stand
- Accessories



SYSTEM

OFF/HYBRID-GRID SOLAR SYSTEM



Equipment:

- Solar Modules
- Solar Charge Controller
- Battery Bank
- Off-Grid Inverter
- Solar Panel Stand
- Accessories
- Backup Generator (optional)
- Backup Utility Grid (optional)



Definition:

These systems allow you to store your solar energy in batteries for use when the network goes down or you are not on the network. Hybrid systems provide the energy needed to compensate for grid energy when the sun is shining and will even send extra energy to the grid for credit for later use.

Advantages:

These self-sustainable systems can work independently and do not rely on the grid.

They generate enough power that can be stored and used at night or when the power grid is down.

These are ideal for remote areas where there is no power access from the grid.

Disadvantage:

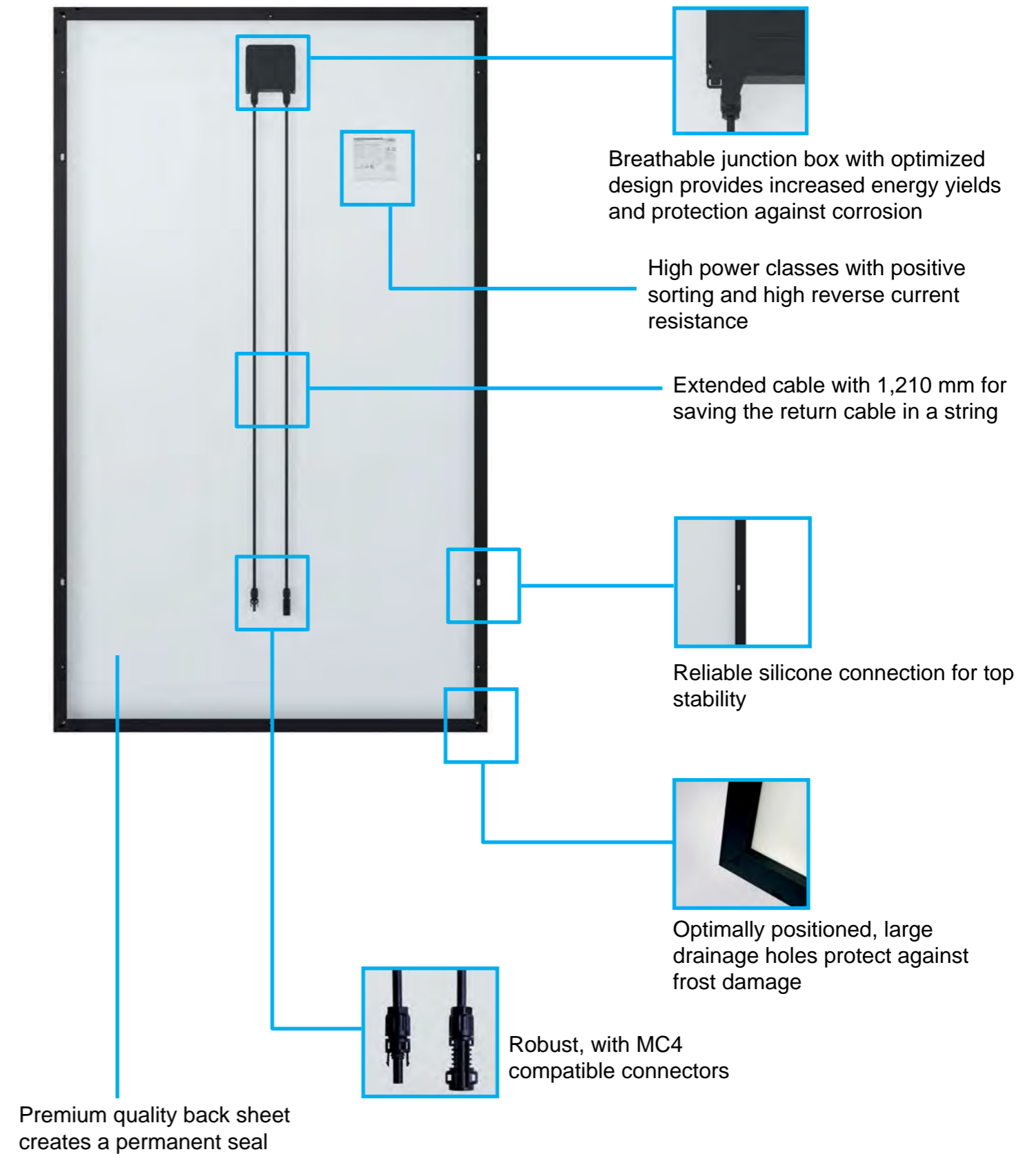
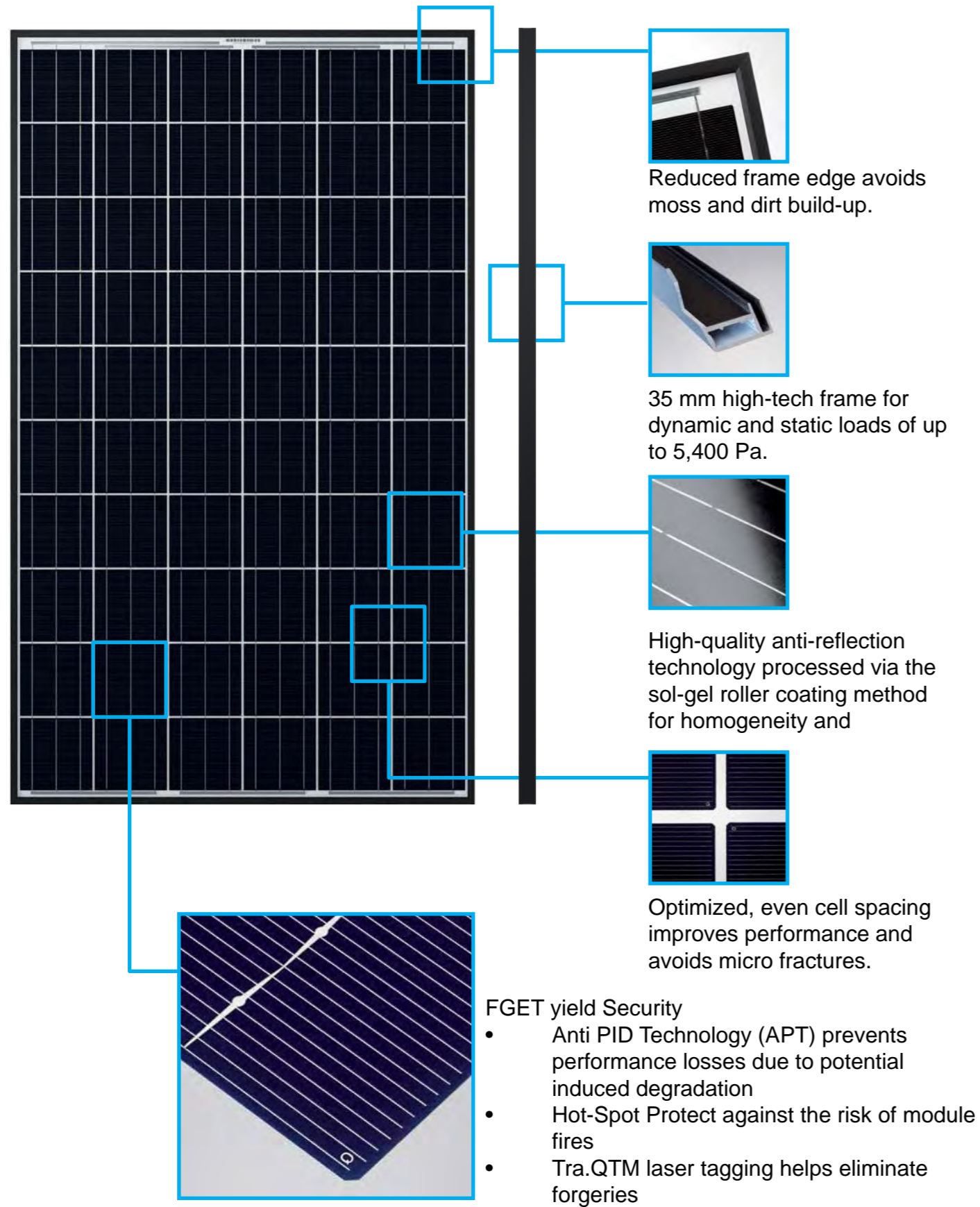
We can not expect the power to supply all your loads, because the cost and the volume of the batteries would be prohibitive. Off-grid systems require much more specialized equipment, which is more expensive and more complex to install.

Applications:

Electricity supply in rural and remote areas - Off-grid solar systems can facilitate independent, long-term and sustainable electricity generation in rural and remote areas.

Power back up in areas with frequent electricity cuts.

SOLAR MODULE STRUCTURE



60 CELL

MONOCRYSTALLINE MODULE

280–315W

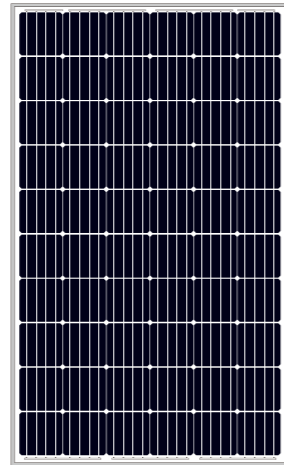
POWER OUTPUT RANGE

19.2%

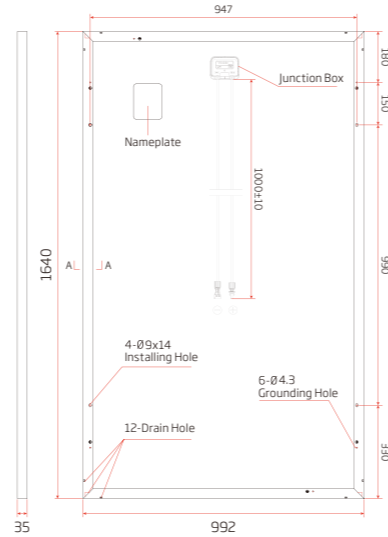
MAXIMUM EFFICIENCY

0/+5W

POSITIVE POWER TOLERANCE



FGET-60 Cell-M



MECHANICAL PARAMETERS

| | |
|---|--------------------------------------|
| Cell (mm) | Quasi-Full Square Mono 156.75x156.75 |
| Weight (kg) | 18.7±3% |
| Dimensions (L×W×H) (mm) | 1640×991×35 |
| Cable Cross Section Size (mm ²) | 4 |
| No. of Cells and Connections | 60 (6×10) |
| Junction Box | IP67, 3 diodes |
| Connector | MC4 Compatible |
| Packaging Configuration | 30 Per Pallet |

WORKING CONDITIONS

| | |
|---|---|
| Maximum System Voltage | DC 1000V (IEC) |
| Operating Temperature | -40°C~+85°C |
| Maximum Series Fuse | 15A |
| Maximum Static Load, Front Maximum Static Load, Back | 5400Pa (112 lb/ft ²) 2400Pa (50 lb/ft ²) |
| NOCT | 45±2°C |
| Application Class | Class A |

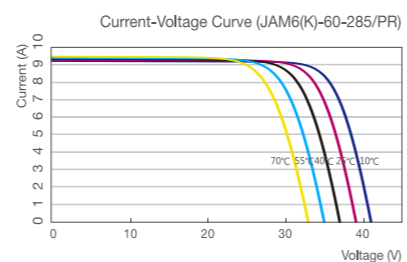
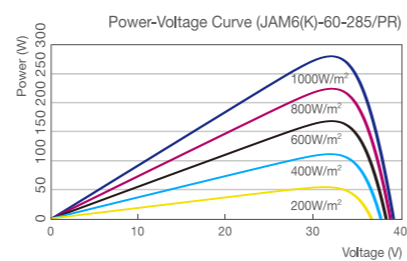
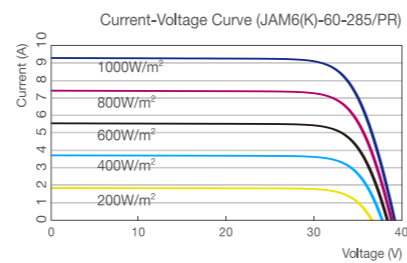
ELECTRICAL PARAMETERS

| TYPE | FGET 60 280W-M | FGET 60 290W-M | FGET 60 295W-M | FGET 60 300W-M | FGET 60 315W-M |
|--|---|-------------------|-------------------|-------------------|-------------------|
| Rated Maximum Power at STC (W) | 280 | 290 | 295 | 300 | 315 |
| Open Circuit Voltage (Voc/V) | 39.05 | 39.46 | 39.64 | 39.85 | 41.10 |
| Maximum Power Voltage (Vmp/V) | 31.60 | 31.80 | 32.03 | 32.26 | 33.40 |
| Short Circuit Current (Isc/A) | 9.38 | 9.57 | 9.66 | 9.75 | 9.96 |
| Maximum Power Current (Imp/A) | 8.86 | 9.12 | 9.21 | 9.30 | 9.44 |
| Module Efficiency [%] | 17.12 | 17.74 | 18.04 | 18.35 | 19.26 |
| Power Tolerance (W) | -0~+5W | | | | |
| Temperature Coefficient of Isc (αIsc) | +0.060%/°C | | | | |
| Temperature Coefficient of Voc (βVoc) | -0.300%/°C | | | | |
| Temperature Coefficient of Pmax (γPmp) | -0.390%/°C | | | | |
| STC | Irradiance 1000W/m ² , Cell Temperature 25°C, Air Mass 1.5 | | | | |

NOCT

| TYPE | FGET 60 280W-M | FGET 60 290W-M | FGET 60 295W-M | FGET 60 300W-M | FGET 60 315W-M |
|---------------------------------|---|-------------------|-------------------|-------------------|-------------------|
| Max Power (Pmax) [W] | 204.71 | 212.02 | 215.67 | 219.33 | 238.05 |
| Open Circuit Voltage (Voc) [V] | 35.81 | 36.24 | 36.46 | 36.65 | 38.8 |
| Max Power Voltage (Vmp) [V] | 28.55 | 28.81 | 28.87 | 28.94 | 31.5 |
| Short Circuit Current (Isc) [A] | 7.64 | 7.81 | 7.89 | 7.98 | 8.03 |
| Max Power Current (Imp) [A] | 7.17 | 7.36 | 7.47 | 7.58 | 7.55 |
| Condition | Under Normal Operating Cell Temperature, Irradiance of 800 W/m ² , spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s | | | | |

I-V CURVE



72 CELL

MONOCRYSTALLINE MODULE

19.3%

MAXIMUM EFFICIENCY

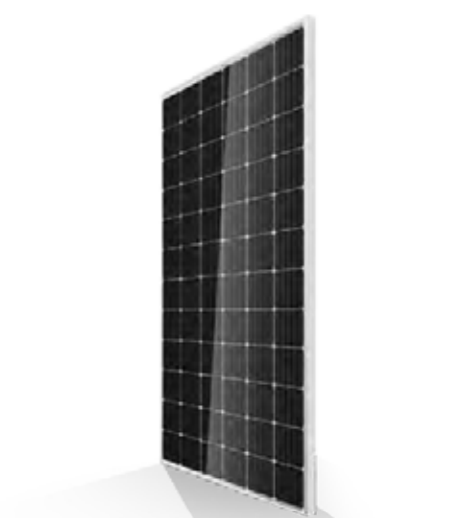
340–375W

POWER OUTPUT RANGE

0/+5W

POSITIVE POWER TOLERANCE

FGET-72 Cell-M



| ELECTICAL DATA @STC | FGET-72 340-M | FGET-72 345-M | FGET-72 350-M | FGET-72 355-M | FGET-72 360-M | FGET-72 365-M | FGET-72 370-M | FGET-72 375-M |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Peak Power Watts-P _{MAX} (Wp)* | 340 | 345 | 350 | 355 | 360 | 365 | 370 | 375 |
| Power Output Tolerance-P _{MAX} (W) | 0/+5 | 0/+5 | 0/+5 | 0/+5 | 0/+5 | 0/+5 | 0/+5 | 0/+5 |
| Maximum Power Voltage-V _{MPP} (V) | 38.2 | 38.5 | 38.7 | 38.8 | 39.0 | 39.3 | 39.7 | 40.0 |
| Maximum Power Current-I _{MPP} (A) | 8.90 | 8.96 | 9.04 | 9.14 | 9.24 | 9.30 | 9.33 | 9.37 |
| Open Circuit Voltage-V _{OC} (V) | 46.2 | 46.7 | 47.0 | 47.4 | 47.7 | 48.0 | 48.3 | 48.5 |
| Short Circuit Current-I _{SC} (A) | 9.50 | 9.55 | 9.60 | 9.65 | 9.70 | 9.77 | 9.83 | 9.88 |
| Module Efficiency η _m (%) | 17.5 | 17.7 | 18.0 | 18.3 | 18.5 | 18.8 | 19.0 | 19.3 |

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5
* Measuring tolerance: ±3%

| ELECTICAL DATA @NOCT | FGET-72 340-M | FGET-72 345-M | FGET-72 350-M | FGET-72 355-M | FGET-72 360-M | FGET-72 365-M | FGET-72 370-M | FGET-72 375-M |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Maximum Power-P _{MAX} (Wp) | 253 | 257 | 261 | 264 | 268 | 272 | 276 | 279 |
| Maximum Power Voltage-U _{MPP} (V) | 35.4 | 35.7 | 35.9 | 36.0 | 36.2 | 36.4 | 36.8 | 37.1 |
| Maximum Power Current-I _{MPP} (A) | 7.15 | 7.20 | 7.26 | 7.34 | 7.42 | 7.47 | 7.50 | 7.53 |
| Open Circuit Voltage-U _{OC} (V) | 42.9 | 43.4 | 43.7 | 44.1 | 44.3 | 44.6 | 44.9 | 45.1 |
| Short Circuit Current-I _{SC} (A) | 7.67 | 7.71 | 7.75 | 7.79 | 7.83 | 7.89 | 7.94 | 7.98 |

NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s.

MECHANICAL DATA

| | |
|-------------------|---|
| Solar Cells | Monocrystalline 156.75 × 156.75 mm |
| Cell Orientation | 72 cells (6 × 12) |
| Module Dimensions | 1960 × 992 × 40 mm |
| Weight | 26.0 kg with 4.0 mm glass; 22.5 kg with 3.2 mm glass |
| Glass | 4.0 mm for PERC Mono; 3.2 mm for Std Mono, high transparency, AR coated and heat tempered solar glass |
| Backsheet | White |
| Frame | Silver Anodized Aluminium Alloy |
| J-Box | IP 67 or IP 68 rated |
| Cables | Photovoltaic Technology Cable 4.0mm ² , 1200 mm |
| Connector | EU Countries: 28 MC4 / UTX / TS4, Non-EU Countries: 28 QC4 / TS4 |

TEMPERATURE RATINGS

| | |
|---|------------|
| Nominal Operating Cell Temperature (NOCT) | 44°C (±2K) |
| Temperature Coefficient of P _{MAX} | -0.39%/K |
| Temperature Coefficient of Voc | -0.29%/K |
| Temperature Coefficient of Isc | 0.05%/K |

MAXIMUM RATINGS

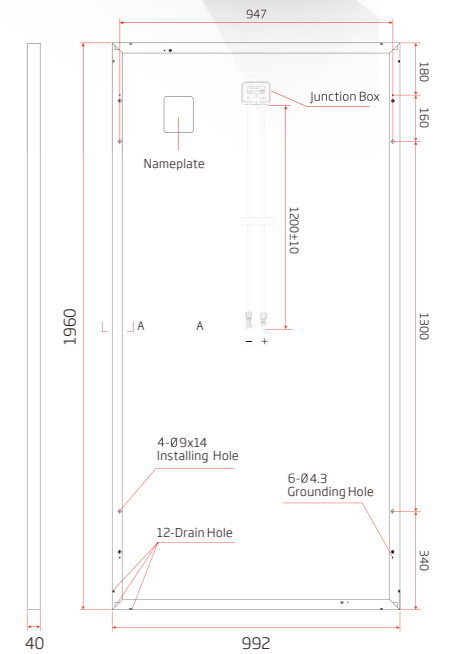
| | |
|-------------------------|--|
| Operational Temperature | -40 to +85°C |
| Maximum System Voltage | 1000 V DC (IEC) 1000 V DC (UL) |
| Max Series Fuse Rating* | 15 A (Power ≤ 350 W) 20 A (Power ≥ 355 W) |
| Mechanical Load | 5400 Pa |
| Wind Load | 2400 Pa |

WARRANTY

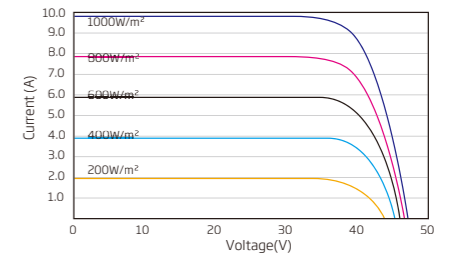
10 year Product Workmanship Warranty
25 year Linear Performance Warranty

PACKAGING CONFIGURATION

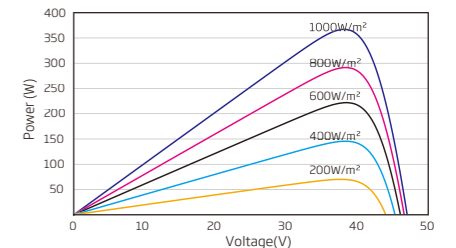
Modules per box: 27 pieces
Modules per 40' container: 648 pieces



I-V CURVES OF PV MODULE (365W)



P-V CURVES OF PV MODULE (365W)



FGET-60 Cell-P

60 CELL

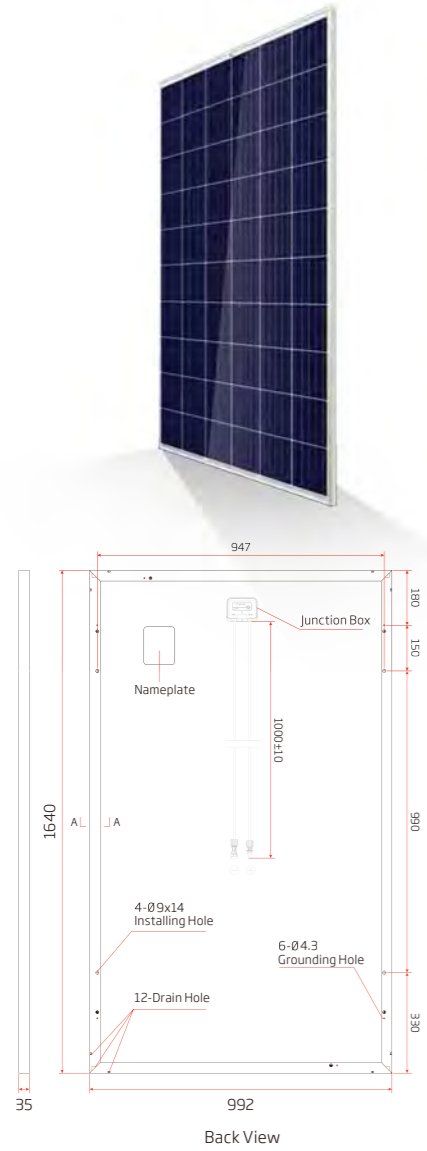
POLYCRYSTALLINE MODULE

17.2%
MAXIMUM EFFICIENCY

270–285W

POWER OUTPUT RANGE

0/+5W
POSITIVE POWER TOLERANCE



| ELECTICAL DATA @STC | FGET 60 270W-P | FGET 60 275W-P | FGET 60 280W-P | FGET 60 285W-P |
|---------------------------------------|-------------------|-------------------|-------------------|-------------------|
| Peak Power Watts- P_{MAX} (Wp)* | 270 | 275 | 280 | 285 |
| Power Output Tolerance- P_{MAX} (W) | 0/+5 | 0/+5 | 0/+5 | 0/+5 |
| Maximum Power Voltage- V_{MPP} (V) | 30.9 | 31.1 | 31.4 | 31.6 |
| Maximum Power Current- I_{MPP} (A) | 8.73 | 8.84 | 8.92 | 9.02 |
| Open Circuit Voltage- V_{OC} (V) | 37.9 | 38.1 | 38.2 | 38.3 |
| Short Circuit Current- I_{SC} (A) | 9.22 | 9.32 | 9.40 | 9.49 |
| Module Efficiency η_m (%) | 16.5 | 16.8 | 17.1 | 17.4 |

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5
* Measuring tolerance: ±3%

| ELECTICAL DATA @NOCT | FGET 60 270W-P | FGET 60 275W-P | FGET 60 280W-P | FGET 60 285W-P |
|--------------------------------------|-------------------|-------------------|-------------------|-------------------|
| Maximum Power- P_{MAX} (Wp) | 200 | 204 | 208 | 211 |
| Maximum Power Voltage- U_{MPP} (V) | 28.6 | 28.8 | 29.0 | 29.2 |
| Maximum Power Current- I_{MPP} (A) | 7.00 | 7.09 | 7.15 | 7.23 |
| Open Circuit Voltage- U_{OC} (V) | 35.1 | 35.3 | 35.4 | 35.5 |
| Short Circuit Current- I_{SC} (A) | 7.44 | 7.52 | 7.59 | 7.66 |

NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s.

MECHANICAL DATA

| | |
|-------------------|--|
| Solar Cells | Multicrystalline 156.75 x 156.75 mm |
| Cell Orientation | 60 cells (6 x 10) |
| Module Dimensions | |
| Weight | 18.6 kg |
| Glass | 3.2 mm, high transparency, AR coated and heat tempered solar glass |
| Backsheet | White |
| Frame | Silver Anodized Aluminium Alloy |
| J-Box | IP 67 or IP 68 rated |
| Cables | Photovoltaic Technology Cable 4.0mm ² , 1000 mm |
| Connector | EU Countries: 28 MC4 / UTX / TS4, Non-EU Countries: 28 QC4 / TS4 |

TEMPERATURE RATINGS

| | |
|---|------------|
| Nominal Operating Cell Temperature (NOCT) | 44°C (±2K) |
| Temperature Coefficient of P_{MAX} | - 0.41%/K |
| Temperature Coefficient of V_{OC} | - 0.32%/K |
| Temperature Coefficient of I_{SC} | 0.05%/K |

WARRANTY

| | |
|--------------------------------------|--|
| 10 year Product Workmanship Warranty | |
| 25 year Linear Performance Warranty | |

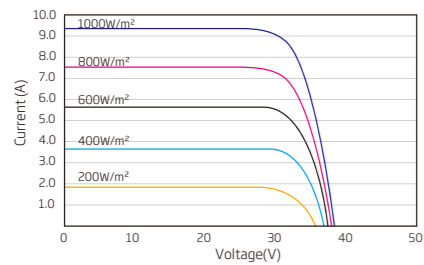
MAXIMUM RATINGS

| | |
|-------------------------|-----------------------------------|
| Operational Temperature | -40 to +85°C |
| Maximum System Voltage | 1000 V DC (IEC) 1000 V DC (UL) |
| Max Series Fuse Rating* | 15 A |
| Mechanical Load | 5400 Pa |
| Wind Load | 2400 Pa |

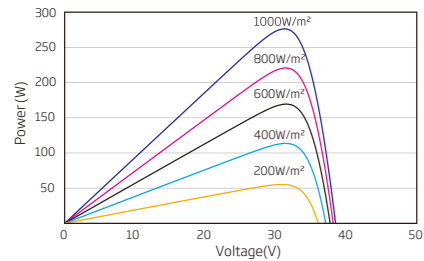
PACKAGING CONFIGURATION

| | |
|----------------------------|------------|
| Modules per box: | 30 pieces |
| Modules per 40' container: | 840 pieces |

I-V CURVES OF PV MODULE (280W)



P-V CURVES OF PV MODULE (280W)



FGET-72 Cell-P

72 CELL

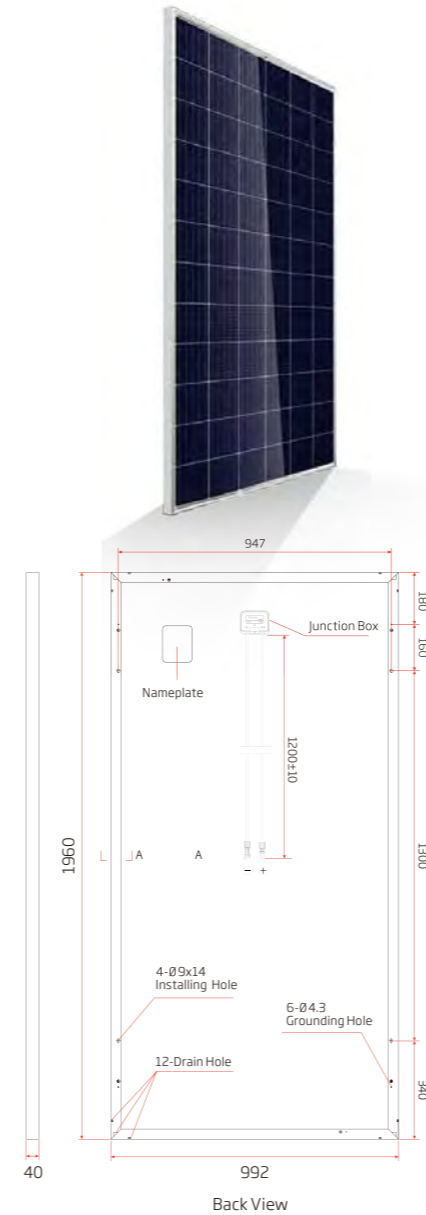
POLYCRYSTALLINE MODULE

17.5%
MAXIMUM EFFICIENCY

320–340W

POWER OUTPUT RANGE

0/+5W
POSITIVE POWER TOLERANCE



| ELECTICAL DATA @STC | FGET-72 320-P | FGET-72 325-P | FGET-72 330-P | FGET-72 335-P | FGET-72 340-P |
|---------------------------------------|------------------|------------------|------------------|------------------|------------------|
| Peak Power Watts- P_{MAX} (Wp)* | 320 | 325 | 330 | 335 | 340 |
| Power Output Tolerance- P_{MAX} (W) | 0/+5 | 0/+5 | 0/+5 | 0/+5 | 0/+5 |
| Maximum Power Voltage- V_{MPP} (V) | 37.1 | 37.2 | 37.4 | 37.6 | 37.8 |
| Maximum Power Current- I_{MPP} (A) | 8.63 | 8.73 | 8.83 | 8.91 | 8.99 |
| Open Circuit Voltage- V_{OC} (V) | 45.5 | 45.6 | 45.8 | 46.0 | 46.2 |
| Short Circuit Current- I_{SC} (A) | 9.15 | 9.19 | 9.28 | 9.35 | 9.42 |
| Module Efficiency η_m (%) | 16.5 | 16.7 | 17.0 | 17.2 | 17.5 |

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5
* Measuring tolerance: ±3%

| ELECTICAL DATA @NOCT | FGET-72 320-P | FGET-72 325-P | FGET-72 330-P | FGET-72 335-P | FGET-72 340-P |
|--------------------------------------|------------------|------------------|------------------|------------------|------------------|
| Maximum Power- P_{MAX} (Wp) | 237 | 241 | 245 | 249 | 252 |
| Maximum Power Voltage- U_{MPP} (V) | 34.3 | 34.4 | 34.6 | 34.8 | 35.0 |
| Maximum Power Current- I_{MPP} (A) | 6.92 | 7.00 | 7.08 | 7.14 | 7.21 |
| Open Circuit Voltage- U_{OC} (V) | 42.1 | 42.2 | 42.4 | 42.6 | 42.8 |
| Short Circuit Current- I_{SC} (A) | 7.39 | 7.42 | 7.49 | 7.55 | 7.60 |

NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s.

MECHANICAL DATA

| | |
|-------------------|--|
| Solar Cells | Polycrystalline 156.75 x 156.75 mm |
| Cell Orientation | 72 cells (6 x 12) |
| Module Dimensions | 1960 x 992 x 40 mm |
| Weight | 22.5 kg |
| Glass | 3.2 mm, high transparency, AR coated and heat tempered solar glass |
| Backsheet | White |
| Frame | Silver Anodized Aluminium Alloy |
| J-Box | IP 67 or IP 68 rated |
| Cables | Photovoltaic Technology Cable 4.0mm ² , 1200 mm |
| Connector | EU Countries: 28 MC4 / UTX / TS4, Non-EU Countries: 28 QC4 / TS4 |

TEMPERATURE RATINGS

| | |
|---|------------|
| Nominal Operating Cell Temperature (NOCT) | 44°C (±2K) |
| Temperature Coefficient of P_{MAX} | - 0.41%/K |
| Temperature Coefficient of V_{OC} | - 0.32%/K |
| Temperature Coefficient of I_{SC} | 0.05%/K |

WARRANTY

| | |
|--------------------------------------|--|
| 10 year Product Workmanship Warranty | |
| 25 year Linear Performance Warranty | |

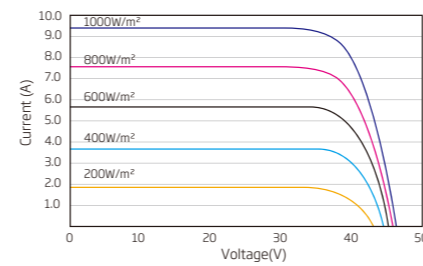
MAXIMUM RATINGS

| | |
|-------------------------|-----------------------------------|
| Operational Temperature | -40 to +85°C |
| Maximum System Voltage | 1000 V DC (IEC) 1000 V DC (UL) |
| Max Series Fuse Rating* | 15 A |
| Mechanical Load | 5400 Pa |
| Wind Load | 2400 Pa |

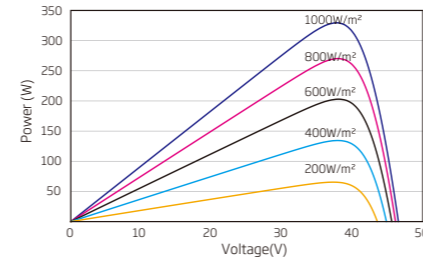
PACKAGING CONFIGURATION

| | |
|----------------------------|------------|
| Modules per box: | 27 pieces |
| Modules per 40' container: | 648 pieces |

I-V CURVES OF PV MODULE (335W)



P-V CURVES OF PV MODULE (335W)



AM SERIES DEEP CYCLE AGM BATTERY



DG SERIES DEEP CYCLE GEL BATTERY



AM SERIES DEEP CYCLE AGM BAT-

Designed floating service life: 12 years @ 20 °C/68 °F

Voltage covers: 6V, 8V, 12V

Capacity: 33Ah to 260Ah

Main Applications

- Communication Equipment
- Fire & Security Systems
- Uninterruptible Power Supply
- Electronic Test Equipment
- Processor Based Office Machines
- Geophysical Equipment
- Medical Equipment
- Portable Cine & Video Lights
- Power Tool
- Solar Power Systems
- Television & Video Recorder
- Vending Machines
- Other Standby or Primary power supply



General Features

- Higher Power Density

A special assembly technology is used to enhance power density to a considerable level.

- Reliable Construction

The extra strong construction ABS container reduces case bulging and plate warping, ensuring a long life and high performance.

- Valve Regulating

Perfect venting system, which operates under low pressure, is designed to release excess gas and keep the internal pressure within the optimum range of safe and efficient performance.

- Excellent Recovery from Deep Cycle

Unique technical processes are used into the grid alloy and electrolyte additive, in this case, the battery can be recharged easily to normal level after being over-discharged.

Designed floating service life: 12 years @ 20 °C/68 °F

Voltage covers: 6V, 8V, 12V

Capacity: from 24Ah to 260Ah

Main Applications

- Aerial Work Platform (AWP)/Access
- Hybrid Telecom Remote Base Stations
- Grid Frequency Leveling Systems
- All Back-up Applications
- Remote Monitoring & Instrumentation
- Renewable Energy (Solar, Small Wind and Small Hydro)



DG SERIES DEEP CYCLE GEL BATTERY

General Features

- GEL Technology

The success of DG batteries comes from internationally superior Gel technology. It is ideal for standby or frequent cyclic discharge applications under extreme environments.

- Long Life Time

Specially designed for telecommunication use with 10+ years of design life in float service. By combining the newly developed paste formula with up-to-date AGM structures, this range features 12 years of design life. By using strong grids, high purity lead and patented Gel electrolyte, the DGseries offers excellent recovery after deep discharge under frequent cyclic discharge use and can deliver 400 cycles at 100% DOD.

- Excellent Recovery from Deep Cycle

Unique technical processes are used into the grid alloy and electrolyte additive, in this case, the battery can be recharged after being over-discharged.

CONTROLLER
MPPT
SOLAR CONTROLLER



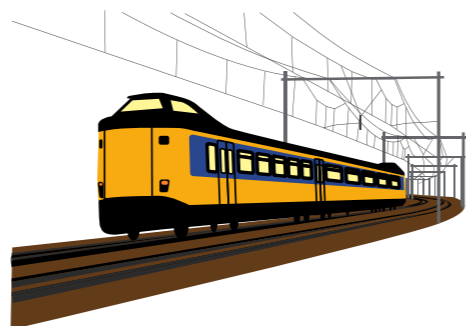
MPPT SOLAR CONTROLLER

Solar MPPT controller is own research and development, their own production of a new generation of intelligent MPPT solar controller, can identify 12V/24V/36V/48V or 48V/96V voltage automatically.

More type for business use high voltage at our website.

General Features

- Display real-time power generation and current;
- Display the daily power generation curve and current curve;
- Chinese and English, multi-function LCD screen and operation menu;
- Display fault records, to facilitate customer troubleshooting in a timely manner;
- Support lead-acid batteries, colloidal batteries and lithium batteries;
- Intelligent maximum power point tracking technology increases efficiency 25%~30%;
- Battery temperature sensor (BTS) automatically provides temperature compensation;
- Perfect protection function;
- Tracking accuracy of more than 99%;
- Ultra-fast tracking speed, tracking 1 times per second.



| | 12/24/48V | | | | | 48/96V | | |
|---|--|----------|-------------------------------|----------|----------|--------------------------|------------|------------|
| Model | TYC-20IR | TYC-30IR | TYC-40IR | TYC-50IR | TYC-60IR | TYC-40A96 | TYC-50A96 | TYC-50A96 |
| | TYC-20AL | TYC-30AL | TYC-40AL | TYC-50AL | TYC-60AL | TYC-40AL96 | TYC-50AL96 | TYC-50AL96 |
| Float charger current(Lead acid battery) | 20A | 30A | 40A | 50A | 60A | 40A | 50A | 60A |
| Rated current | 22A | 32A | 42A | 52A | 62A | 42A | 52A | 62A |
| | 12V System | 13.75V | | | | | | |
| Float charge current | 24V System | 27.5V | | | | | | |
| Charge voltage (lead acid battery) | 48V System | 55V | | | | can custom float voltage | | |
| | 96V System | 110V | | | | | | |
| Equalizing Charge voltage (lead acid battery) | 12V System | 14.2V | can custom Equalizing voltage | | | | | |
| | 24V System | 28.4V | | | | | | |
| | 48V System | 56.8V | | | | | | |
| | 96V System | 113.6V | | | | | | |
| Temperature coefficient | ±0.02%/°C | | | | | | | |
| Automatic Temperature compensation | 14.2V- (Maximum temperature -25°C) *0.3 | | | | | | | |
| Output Voltage Regulated Accuracy | =±1.5% | | | | | | | |
| LCD Display | More details show n in LCD instruction | | | | | | | |
| LED Display | Charging indicator,DC output indicator | | | | | | | |
| PC (communication port) | Rs485(Optional) | | | | | | | |
| Protection | | | | | | | | |
| Low input voltage | See the input features | | | | | | | |
| High input voltage | See the input features | | | | | | | |
| Input polarity reverse | yes | | | | | | | |
| output polarity reverse | yes | | | | | | | |
| Short circuit | After long-term short circuit,the short circuit fault can eliminate fro the recovery | | | | | | | |
| Temperature | +85°C | | | | | | | |
| heat protection | Over +80°C to reduce pow er output | | | | | | | |
| Other parameters | | | | | | | | |
| Audible noise | =50dB | | | | | | | |
| Heat-dissipating method | Forced air cooling,fan speed regulated by temperature.When the internal temperature is low ,the fan runs slowly or stops:w hen the controller stops working,the fan stops running: | | | | | | | |
| Coomponent | Imported materials,in line w ith EU standards all the temperature of the electrolytic capacitor rated temperature is not less than 105°C | | | | | | | |
| smell | Do not produce odor and harmful to the health of the smell | | | | | | | |
| Environmental requirement | Meet the regulation of 2002/95/EC; No cadmium,hydride and fluoride; | | | | | | | |



Solar Carport Mount:

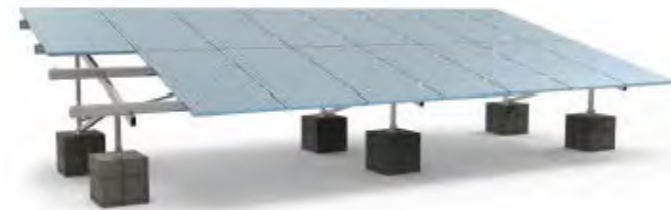
Solar carport mounting system offers simplified and economic solution providing shade for parking and solar power generation.

- Distance between footings: 5000 mm above
- Options for both single and double rows of parking
- Effectively uses existing parking space
- The ideal choice for electric vehicle charging station
- Material: Anodized aluminum 6005 T6 stainless steel 304
- PV module: Framed, unframed

GTS Ground Mount:

The GTS ground mounting system is a cost performance optimized design; the supporting footing is delivered with highest pre-assembly to unfold at site.

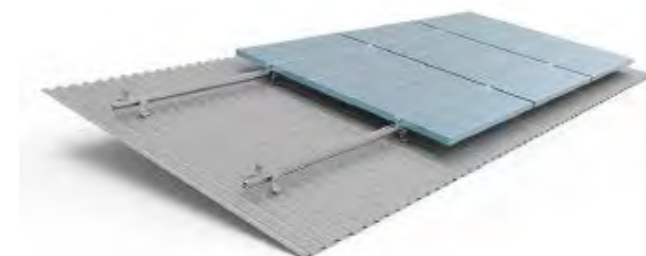
- Distance between footings: Depending on load condition
- Using ground screw or concrete foundations
- Flexible design - variable inclination and height
- Low-maintenance and fully recyclable
- Material: Anodized aluminum 6005 T6 stainless steel 304, Hot-dipped galvanized steel Q235B
- PV module: Framed, unframed



Tile Roof Mount:

The tile roof mounting system offers perfect solution for installation on tile roofing.

- Roof slope: Up to 45°
- Suitable for nearly all coverings, such as pantile, plain tiles, slate tiles, etc.
- Wind speed: Up to 88 m/s
- PV module: Framed, unframed
- Material: Anodized aluminum 6005 T5 stainless steel 304



Railless Metal Sheet Mount:

The metal roof mounting system is suitable for roofing with corrugated sheet metal, trapezoidal metal sheet.

- Roof slope: Up to 45°
- Options for L Feet, hanger bolt, fast installation
- Roof cladding: Suitable for most types of cladding
- Wind speed: Up to 88 m/s
- PV module: Framed, unframed
- Material: Anodized aluminum 6005 T5 stainless



PV Monitoring Software

- Detect AC voltage/current, DC voltage/current, intraday/accumulate power production, fault/status information, battery management/ protection, grid frequency, AC power, intraday/accumulate power generation time
- User-friendly interface, easy to operate and manage
- Perfect data processing capabilities to realize functions of event log, data or chart query
- Adaptive system updates, support remote software upgrade

Environmental Monitor

Environmental monitor is used for detecting on-site environmental data of PV station. The system is composed of environmental monitoring box and sensor group. It realizes the environmental parameters measurement like environmental temperature, component temperature, wind speed, wind direction, total solar radiation, direct radiation, bevel radiation, and etc.

General Features

- Industrial sensor with high sensitivity
- Data logging software for real time detection
- Adapt to kinds of environment
- Easy to install
- Customized sensor

MODULE PARAMETERS

| Module Voltage | Peak Power Pm(W) | Maximum Power Vm (V) | Maximum Power Current Im(A) | Open Circuit Voltage Voc(V) | Short Circuit Current Isc(A) | Module Efficiency η (%) | Module Size (MM) | N.W (kg) |
|----------------|------------------|----------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|------------------|----------|
| 18V | 10W | 17.8 | 0.56 | 21.9 | 0.61 | 12.8 | 340*232*15 | 1.1 |
| | 20W | 18 | 1.12 | 22.1 | 1.2 | 13.08 | 450*340*20 | 1.9 |
| | 30W | 18 | 1.67 | 22.1 | 1.81 | 14.12 | 625*420*25 | 2.8 |
| | 40W | 18.1 | 2.21 | 22.1 | 2.39 | 14.21 | 670*420*25 | 3.5 |
| | 50W | 18.2 | 2.75 | 22.1 | 2.98 | 13.62 | 680*540*25 | 4.1 |
| | 60W | 18.1 | 3.31 | 22.1 | 3.58 | 13.78 | 670*650*25 | 4.9 |
| | 70W | 18.1 | 3.87 | 22.3 | 4.2 | 16.07 | 670*650*25 | 4.9 |
| | 80W | 18.1 | 4.42 | 22.3 | 4.81 | 15.08 | 780*680*25 | 6 |
| | 90W | 18.1 | 4.97 | 22.3 | 5.41 | 15.23 | 895*660*25 | 6.5 |
| | 100W | 18.2 | 5.49 | 22.3 | 6.02 | 14.96 | 1005*665*30 | 7.5 |
| | 120W | 18.2 | 6.45 | 22.3 | 7.01 | 15.1 | 1195*665*30 | 9 |
| | 150W | 18.5 | 8.06 | 22.3 | 8.53 | 18.4 | 1240*665*30 | 9.3 |
| | 160W | 18.6 | 8.6 | 22.3 | 9.11 | 16.26 | 1480*665*30 | 11.2 |
| | 180W | 18.8 | 9.57 | 22.6 | 10.15 | 18.29 | 1480*665*30 | 11.2 |
| 30V | 260W | 30.8 | 8.44 | 37.8 | 8.9 | 16 | 1640*992*35 | 19.1 |
| | 270W | 30.9 | 8.73 | 37.9 | 9.22 | 16.5 | 1640*992*35 | 19.1 |
| | 280W | 31.4 | 8.92 | 38.2 | 9.4 | 17.1 | 1640*992*35 | 19.1 |
| | 290W | 32.2 | 9.01 | 38.9 | 9.66 | 17.7 | 1640*992*35 | 19.1 |
| | 300W | 32.6 | 9.19 | 39.8 | 9.77 | 18.3 | 1640*992*35 | 19.1 |
| | 310W | 33.1 | 9.37 | 40.2 | 9.94 | 18.9 | 1640*992*35 | 19.1 |
| 36V | 315W | 33.4 | 9.44 | 41.1 | 9.96 | 19.2 | 1640*992*35 | 19.1 |
| | 200W | 37.6 | 5.32 | 45.3 | 5.64 | 16.84 | 1200*990*35 | 14.7 |
| | 220W | 37.6 | 5.85 | 45.3 | 6.21 | 16.83 | 1320*990*35 | 15.6 |
| | 250W | 37.1 | 6.73 | 45.2 | 7.14 | 19.13 | 1320*990*35 | 15.6 |
| | 260W | 37.1 | 7.01 | 45.2 | 7.43 | 16 | 1640*992*35 | 19.1 |
| | 300W | 37.8 | 7.93 | 45.3 | 8.43 | 18.3 | 1640*992*35 | 19.1 |
| | 340W | 38.2 | 8.9 | 46.2 | 9.5 | 17.6 | 1956*992*40 | 21.2 |
| | 350W | 38.7 | 9.04 | 47 | 9.65 | 18.1 | 1956*992*40 | 21.2 |
| | 360W | 39 | 9.14 | 47.7 | 9.7 | 18.6 | 1956*992*40 | 21.2 |
| | 375W | 40 | 9.37 | 48.5 | 9.88 | 19.38 | 1956*992*40 | 21.2 |

BATTERY PARAMETERS

| Model | Voltage (V) | Capacity C20 (AH) | Dimensions | | | | Approx. Weight (kg) | Terminal Type |
|------------|-------------|-------------------|-------------|------------|-------------|-------------------|---------------------|---------------|
| | | | Length (mm) | Width (mm) | Height (mm) | Total height (mm) | | |
| AM6V100Ah | 6 | 100 | 194 | 170 | 205 | 210 | 16.5 | T11 |
| AM6V200Ah | 6 | 200 | 321 | 176 | 226 | 246 | 29.0 | T11 |
| AM6V225Ah | 6 | 225 | 321 | 176 | 226 | 246 | 31.0 | T11 |
| AM12V33Ah | 12 | 33 | 196 | 131 | 155 | 180 | 10.2 | T5 |
| AM12V36Ah | 12 | 36 | 196 | 131 | 155 | 180 | 10.6 | T5 |
| AM12V38Ah | 12 | 38 | 196 | 165 | 175 | 182 | 11.4 | T5 |
| AM12V40Ah | 12 | 40 | 196 | 165 | 175 | 175 | 12.0 | T5 |
| AM12V55Ah | 12 | 55 | 229 | 138 | 208 | 227 | 16.5 | T5 |
| AM12V65Ah | 12 | 65 | 350 | 166 | 175 | 175 | 20.5 | T11/T14 |
| AM12V70Ah | 12 | 70 | 350 | 166 | 175 | 175 | 21.0 | T11/T14 |
| AM12V75Ah | 12 | 75 | 260 | 169 | 208 | 227 | 21.5 | T11/T14 |
| AM12V80Ah | 12 | 80 | 260 | 169 | 208 | 227 | 22.0 | T11/T14 |
| AM12V90Ah | 12 | 90 | 307 | 168 | 208 | 227 | 25.0 | T11/T14 |
| AM12V100Ah | 12 | 100 | 328 | 172 | 222 | 222 | 29.5 | T11/T14 |
| AM12V100Ah | 12 | 100 | 328 | 172 | 222 | 222 | 32.5 | T11/T14 |
| AM12V120Ah | 12 | 120 | 406 | 174 | 208 | 233 | 33.0 | T11/T14 |
| AM12V150Ah | 12 | 150 | 483 | 170 | 241 | 241 | 43.0 | T11/T14 |
| AM12V180Ah | 12 | 180 | 532 | 207 | 215 | 240 | 52.0 | T11/T14 |
| AM12V200Ah | 12 | 200 | 522 | 240 | 219 | 244 | 59.0 | T11/T14 |
| AM12V210Ah | 12 | 210 | 522 | 240 | 219 | 228 | 61.0 | T11/T14 |
| AM12V260Ah | 12 | 260 | 522 | 268 | 219 | 228 | 69.0 | T11/T14 |
| DG12-33 | 12 | 33 | 195 | 130 | 155 | 168 | 10.2 | T5 |
| DG12-40 | 12 | 40 | 198 | 166 | 169 | 169 | 13.2 | T5 |
| DG12-55 | 12 | 55 | 229 | 138 | 211 | 216 | 17.0 | T5 |
| DG12-65 | 12 | 65 | 350 | 167 | 182 | 182 | 21.0 | T11 |
| DG12-70 | 12 | 70 | 350 | 167 | 182 | 182 | 22.5 | T11 |
| DG12-75 | 12 | 75 | 260 | 169 | 211 | 218 | 23.5 | T11 |
| DG12-80 | 12 | 80 | 260 | 169 | 211 | 218 | 25.0 | T11/T14 |
| DG12-90 | 12 | 90 | 306.5 | 168.5 | 210 | 231 | 28.5 | T11/T14 |
| DG12-100 | 12 | 100 | 328 | 172 | 215 | 220 | 30.0 | T11/T14 |
| DG12-120 | 12 | 120 | 407 | 177 | 225 | 225 | 35.5 | T11/T14 |
| DG12-134 | 12 | 134 | 340 | 173 | 280 | 287 | 41.5 | T11/T14 |
| DG12-150 | 12 | 150 | 483 | 170 | 241 | 241 | 44.5 | T11/T14 |
| DG12-180 | 12 | 180 | 532 | 207 | 214 | 219 | 53.0 | T11/T14 |
| DG12-200 | 12 | 200 | 522 | 240 | 219 | 224 | 60.0 | T11/T14 |
| DG12-230 | 12 | 230 | 521 | 269 | 204 | 209 | 67.0 | T11/T14 |
| DG12-260 | 12 | 260 | 520 | 268 | 220 | 225 | 74.0 | T11/T14 |

