

Jiangsu Green Energy Power Technology Co.Ltd	Number: <b>GEP/ZC-2019-JS036</b>	
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**绿能电力**  
GREEN ENERGY POWER



GEP-AfMb440MH  
GEP-AfMb445MH  
GEP-AfMb450MH  
GEP-AfMc540MH  
GEP-AfMc545MH  
GEP-AfMc550MH  
GEP-BfMb365MH  
GEP-BfMb370MH  
GEP-BfMb375MH  
GEP-CfMb370MH  
GEP-DfMb445MH  
GEP-DfMc545MH  
GEP-EfMb405MH  
GEP-EfMb410MH  
GEP-EfMb415MH  
GEP-EfMc495MH  
GEP-EfMc500MH  
GEP-EfMc505MH  
GEP-GfMb410MH  
GEP-GfMc500MH

## Green Energy Power Module Installation Manual

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## 1. INTRODUCTION

- Thank you for choosing Green Energy Power module (MODULE).This installation, operation and maintenance instructions apply to our series MODULES.
- Please read this manual completely and carefully before you install and operate the MODULE. It contains essential information for mechanical and electrical installation, as well as the important safety information which you must understand. If MODULES are used without following all instructions in this manual, all warranty and guarantee claims toward the MODULE shall be invalidated. We reserve the right to update the information in this manual without prior notice.
- This installation, operation and maintenance of MODULE require high level of technical skills and experience, and therefore need to be performed by qualified persons possessing technical skills and basic electrical, electronic and mechanical knowledge related to photovoltaic systems.

## 2. SAFETY PRECAUTIONS

The installation and commissioning of solar photovoltaic system may require specialized skills and knowledge, since improper performance of this work can lead to damage and injury. Installers must read and understand all safety precautions described in this manual prior to installation.

The following safety instructions and warnings form an essential part of this manual and are of fundamental importance. For any questions, please contact our Customer Service Department for further assistance.



■ Meaning of crossed –out wheeled dustbin:

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.

Contact your local government for information regarding the collection systems available.

If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposals at least free of charge.

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## 2.1 General Safety

- Before you attempt to install, wire, operate and maintain the MODULE, please make sure that you completely understand the information described in this manual.
- Prior to installation, do not store MODULE outdoors or in a damp environment to prevent glass from damage due to white efflorescence.
- In order to avoid risk of injury or electrical shock, do not allow anyone to handle damaged MODULE if the operator is unqualified or has limited knowledge of PV module and PV system.
- Application class of MODULE is in accordance with IEC 61730: A.
- If the module is to be mounted to a roof of a building, the assembly is to be mounted over a fire resistant roof covering rated for the application for the non-integral module. Any slope less than 127mm/300mm required to maintain a fire class rating. It is stated that the assembly is to be mounted over a fire resistant roof covering rated for the fire class C application. The fire class rating of modules is Class C.
- The MODULE must be inspected for mechanical soundness before installation. Damaged solar modules (e. g. broken glass, damaged to the insulation layer at the reverse) should not be used, since this has potential severe consequences that might cause endangerment to life and health.
- For roof or ground installation, appropriate safety equipment should be used in order to avoid possible safety hazards. Note that the installation of MODULE on some roofs may require the additional fireproofing, as required by local building/fire codes.
- For roof mounted photovoltaic systems, MODULES must be attached above a fire-resistant covering.
- MODULE produces electricity when exposed to light. Even a single solar module generates enough voltage and current to cause electrical shocks and burns if safety precautions are not followed. The shock hazard increases as MODULES are connected in series and parallel.
- MODULE may not be installed near the area with flammable substances, gases or vapors.
- Artificially concentrated sunlight shall not be directed on the module or panel.
- Do not install MODULE horizontally to avoid dirt accumulation, water accumulation and white efflorescence.
- Do not let the water stay on the glass for long time, since this might cause permanent damage to the glass (e.g. white efflorescence).
- Do not clean MODULE surface with chemical.
- Please install below 2000 meters above sea level.
- Please use at -40 °C -85 °C, 0-85%
- Suggested installation inclination between 15 °and 60 °.

## 2.2 Handling Safety

- MODULE may never be left standing freely or unsecured.
- MODULE frames may not be drilled, nailed or welded to a contact surface. It may reduce the frame strength and cause corrosion of the frame.

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- Do not scratch the anodized coating of the MODULE frame, it may cause corrosion of the frame or reduce the strength.
- Do not place any heavy objects on the MODULE.
- Do not step or walk on the MODULE, there is a risk of injury or electric shock if glass is broken.
- To avoid damage to the junction box and electricity leakage, do not hit the junction box and pull the interconnect cables.
- To avoid damage to the back sheet of the MODULE, do not scratch or hit the back sheet.
- The predrilled drainage holes on the MODULE frames must not be covered.
- Do not lift the MODULE by only one side. Always use two hands to carry the MODULE on the long side.
- Do not handle MODULE under wet conditions unless wearing appropriate personal protective equipment (PPE).Only work under dry conditions and use dry tools.

## 2.3 Installation Safety

- Always keep the MODULE in the packing box before installation.
- Always wear protective equipment during the installation, such as safety helmet, insulating gloves and safety shoes.
- Do not use or install a MODULE with broken glass or torn back sheet.
- Do not work in rain, snow or windy conditions.
- Do not perform any work if the cable connectors are wet.
- Do not wear metallic rings, watchbands or other metallic objects when installing or commissioning the PV system.
- MODULES need to be aligned at the same angle (horizontal as well as vertical direction). Separate frequency converters are to be designed in case of angle deviations.
- Do not touch the junction box and cable connectors with bare hands when install the MODULE under sunlight, regardless of MODULE is connected or disconnected to the PV system.
- Plug cable connectors firmly and correctly, and check all connections before connecting to the system circuit.
- Never unplug the cable connector if the PV system is connected to an operating load.
- Interconnect cables should be well located in order to avoid exposing to sunlight. Direct sunlight may cause insulation degradation.
- Use sunlight resistant cable ties or other wire management tool to secure the interconnect cables, since drooping cables may cause potential severe consequences, such as electrical shock.
- Follow the safety regulation for all other components in the PV system, such as cables, cable connectors, frequency converters, charging regulators, storage batteries etc.
- Snow accumulation may causes deformation of MODULE frames, take appropriate measures to minimize any potential damage to the MODULE.

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## 3. INSTALLATION

### 3.1 General Instructions

- The installation instructions described in this manual need to be followed, make sure that all local applicable standards and construction regulations are complied with as well.
- In most applications, the PV modules should be installed in a location where they will receive maximum sunlight throughout the year.
- MODULES should not be shaded, since this can lead to “hot spot”, power loss even failure of the MODULE.
- In the Northern Hemisphere, orient the MODULE to the south, and in the Southern Hemisphere, MODULE shall face the north. Determine the optimum setting angle according to the latitude of the installation site. Consult this information from a reputable installer or system integrator.
- For stand-alone PV systems with batteries where MODULES are attached to a permanent structure, the tilt angle of the MODULE should be selected to optimize the performance based on seasonal load and sunlight. For grid-tied installations where the MODULES are attached to a permanent structure, MODULES should be tilted to maximize the energy generation on an annual basis.
- MODULES can be clamped in place depending on the design of PV mounting structure. The mounting structure must be made from anti-corrosion material and able to withstand the required loads.
- We recommend using our PV mounting structure for the ground or roof installations. Welcome to contact us at Jiangsu Green Energy Power Technology Co., Ltd; Fax No: +86 511 8853 2992;Service Line: +86 511 8812 9619 for details.

### 3.2 Mechanical Installation

The MODULES may be installed in various applications utilizing a variety of mounting structures and attachment methods, and the structure should have enough strength to achieve mounting span. Generally, MODULES is able to be mounted using frame clamps. When using clamp mounting, the clamps (mid-clamp and end-clamp) must be designed for MODULE and have minimum dimensions in accordance with the instructions below and drawings provided. Clamps should be made of aluminum, stainless steel or other appropriate weatherproof and anti-corrosion materials. Moreover, the clamps should be within frame coverage width to avoid shading and MODULE damage. The MODULE warranty will be void if customer-designed clamps or third party mounting structures are improper or inadequate in regard to properties (material, strength etc.) or installation.To provide adequate ventilation, MODULES must be mounted such that there is a minimum clearance of 50mm between the bottom of the module frame and roofing board/ground surface.

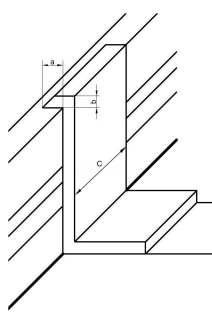
Please review the following descriptions and drawings carefully, not mounting the MODULES in

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accordance with these instructions may void your warranty.

Clamp Mounting:Firmly attached MODULES onto the mounting structure using clamps which will not be deformed by wind or snow load. Note that MODULES may be clamped only in the permitted clamping area on the long side of MODULE frame, never use clamps on the short side of MODULE frame. Make sure that clamps must not overlap the glass or shade the MODULE surface.

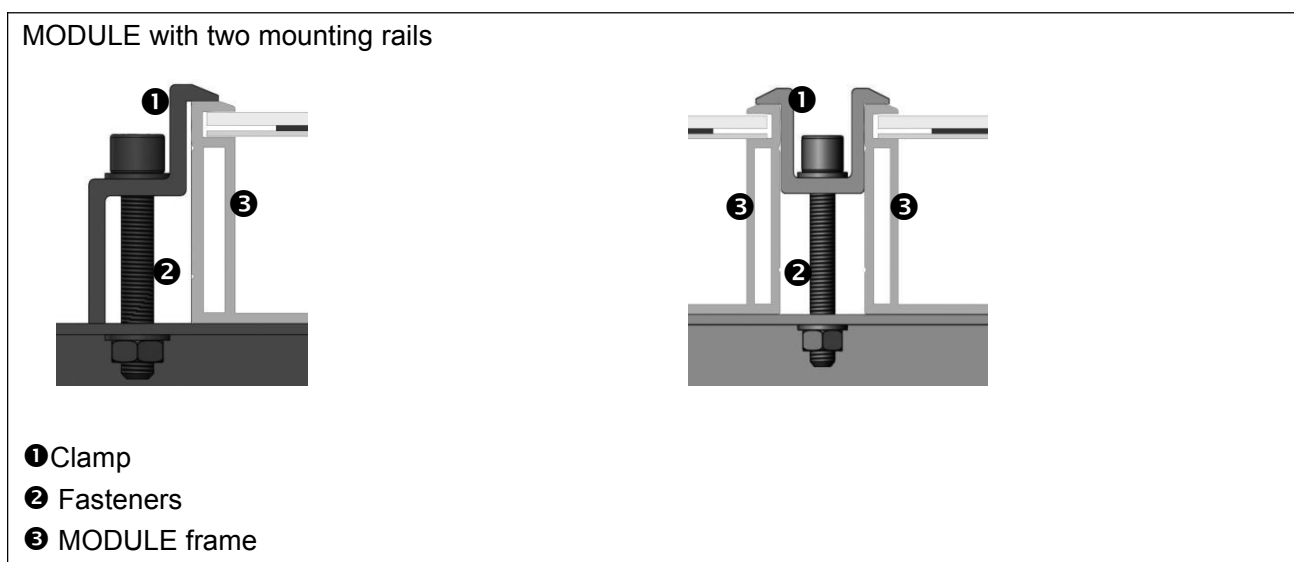
Make sure that the clamps must not overlap the glass or shade the module surface, and must be a minimum contact surface on the MODULE frame of 50mm . Refer to the following drawings and figures for detailed instructions.



Material: Anodized aluminum AL6063-T5 or equivalent

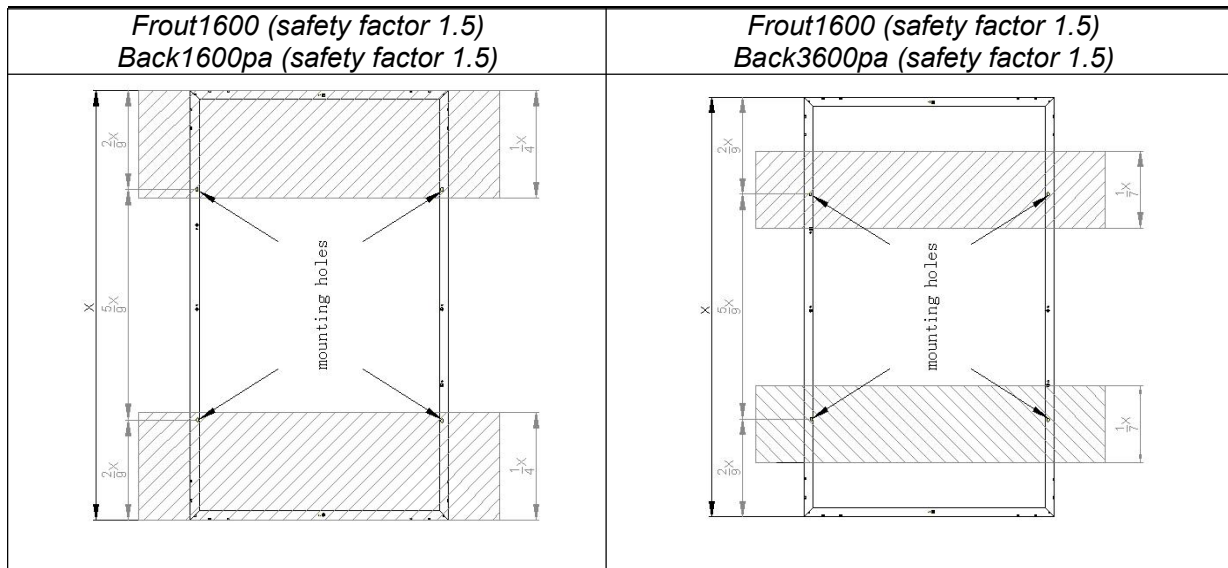
	<b>a:Overlap</b>	<b>b:Thickness</b>	<b>c:Width</b>
<b>Short clamp</b> (Used for twomounting rails)	≥9.0mm	≥3.5mm	≥50mm

**Figure 3: Referenced clamp specifications**



**Figure 4: Referenced mounting method**

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**Figure 5: MODULE installed with clamp**

### 3.3 Electrical Installation

MODULES can be connected in series and/or parallel to achieve the desired electrical output, use only the same type of MODULES in a combined circuitry. All relevant electrical data are specified on the nameplate which is attached on the rear side of the MODULE. Refer to the MODULE specifications in the fifth part of this manual.

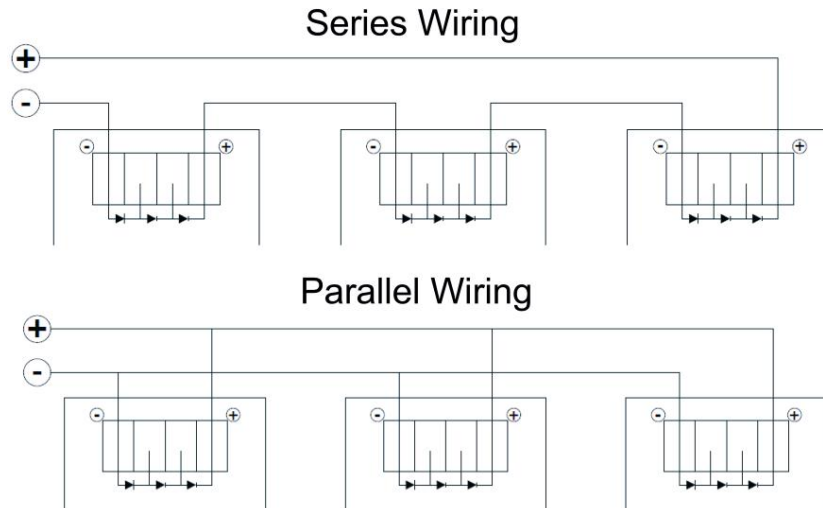
Under normal conditions, a photovoltaic module is likely to experience conditions that produce more current and/or voltage than reported at standard test conditions. Accordingly, the values of ISC and VOC marked on this module should be multiplied by a factor of 1,25 when determining component voltage ratings, conductor current ratings, fuse sizes, and size of controls connected to the PV output.

#### 3.3.1 MODULE Wiring

- Each MODULE comes with two pre-wired 4mm<sup>2</sup> UV-resist interconnect cables each terminated by 05-8 cable connector. The positive (+) terminal has a male connector while female connector is equipped on the negative (-) terminal. Refer to the following figure for the wiring method.
- When connecting the MODULES to a battery or to others, be careful to observe the correct cable connection polarity in order to ensure proper system operation. If MODULES are connected incorrectly, the bypass diodes could be destroyed.
- Series and/or parallel connections shall use the PV wire with a cross section of at least 4mm<sup>2</sup>, UV-resist and 90°C temperature rating. Cable connectors should be 05-8 type.
- **Never plug in or unplug the cable connectors when under load current.**



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**Figure 6: Wiring method**

### 3.3.2 Diode Information

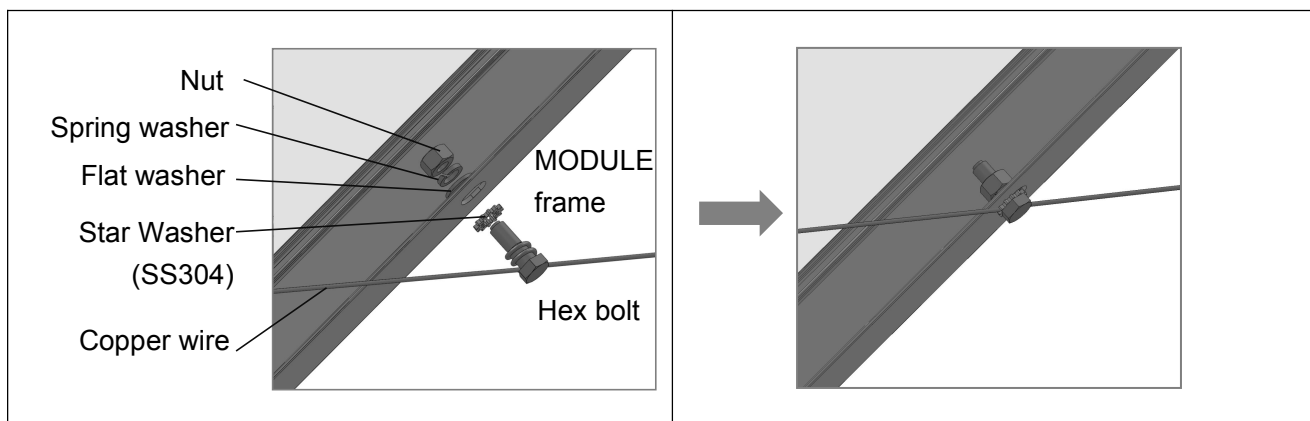
- Schottky, Type: GF3045MG  
Yangzhou Yangjie Electronic Technology Co.,Ltd  
Max. peak reverse voltage 45 V,  
max. average forward current 30 A,  
Max. junction temperature in bypass mode 200 °C ( $t \leq 1$  h)  
No. of bypass diodes: 3 inJK-BOX040, 3 inZ7Junction Box,
- Schottky, Type: FMK4530T  
Zhejiang Renhe Photovoltaic Co.,Ltd.  
Max. peak reverse voltage 45 V,  
max. average forward current 30A,  
Max. junction temperature in bypass mode 200 °C ( $t \leq 1$  h)  
No. of bypass diodes: 3 in FT50xy Junction Box,
- Schottky, Type: FMK5040D  
Zhejiang Renhe Photovoltaic Co.,Ltd.  
Max. peak reverse voltage 50 V,  
max. average forward current 40 A,  
Max. junction temperature in bypass mode 200 °C ( $t \leq 1$  h)  
No. of bypass diodes: 3 in FT50xy Junction Box,

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### 3.3.3 MODULE Grounding

This guide is for MODULE frame grounding. If grounding is required, ensure that MODULE frames (metal exposed to touch) are always grounded. Installation for wiring and grounding method shall be in accordance with national, regional and local codes, standards and laws as well.

Each MODULE has a predrilled grounding hole in the frame for use. Proper grounding is achieved by connecting MODULE frames and all metallic structural parts continuously to one another using a suitable grounding conductor. This grounding conductor shall be made by copper, copper alloy or other appropriate materials. The grounding conductor must connect to earth using a proper earth grounding electrode. Ensure positive electrical contact through the anodizing layer on MODULE frame to be scored by using the following method.



**Figure 7: Grounding method**

## 4. MAINTENANCE

The MODULE is designed for long life and required little maintenance measures. However, to make sure the optimum output of the MODULE, we recommend the following inspections and/or work during MODULE operation.

- In the event of excessive contamination (e.g. dirt, bird droppings), clean the glass surface of MODULE with soft cloth or non-abrasive sponge using clean water. Non-aggressive cleaning agents, acids or leaches may be used to remove stubborn dirt. When clean the back surface of MODULE, take utmost care not to damage the back sheet.
- Electrical, mechanical and grounding connections must be checked per six months to ensure they are clean, undamaged and free of corrosion.

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- Check mounting hardware at least once a year to secure the tightness, since loose connections may result in module damage.

## 5. MODULE SPECIFICATIONS

All electrical data shall be shown as relative to standard test conditions(stc)(1000W/m<sup>2</sup>, (25 ± 2) °C, AM1.5, according to IEC 60904-3).

Temperature coefficient for voltage at open -circuit:-0.304%/°C

Temperature coefficient for maximum power:-0.36%/°C

Temperature coefficient for short-circuit current:0.05%/°C

Maximum series module configurations:Maximum system voltage (IEC)/Open circuit voltage (Voc).(The number reserved integer.)

Model	Maximum power output (Pmax)	Optimum operation voltage (Vmp)	Optimum operation current (Imp)	Open circuit voltage (Voc)	Short circuit current (Isc)	Maximum system voltage (IEC)	Maximum series fuse rating (A)	Maximum series module configurations	Maximum parallel module configurations
GEP-Aa+ XXXMH	315±3%	36.9	8.54	45.1±3%	9.02±3%	1500	15	33	1
	320±3%	37.1	8.63	45.6±3%	9.14±3%	1500	15	32	1
	325±3%	37.3	8.72	45.9±3%	9.26±3%	1500	15	32	1
	330±3%	37.5	8.8	46.2±3%	9.38±3%	1500	15	32	1
	335±3%	37.7	8.89	46.3±3%	9.48±3%	1500	15	32	1
	340±3%	37.9	8.98	46.4±3%	9.58±3%	1500	15	32	1
	345±3%	38.1	9.06	46.5±3%	9.62±3%	1500	15	32	1
	350±3%	38.3	9.14	46.6±3%	9.68±3%	1500	15	32	1
GEP-Ab+ XXXMH	380±3%	39.2	9.70	48.1±3%	10.02±3%	1500	15	31	1
	375±3%	39.0	9.62	48.0±3%	9.96±3%	1500	15	31	1
	370±3%	38.8	9.54	47.9±3%	9.91±3%	1500	15	31	1
	365±3%	38.6	9.46	47.8±3%	9.86±3%	1500	15	31	1
	360±3%	38.4	9.38	47.7±3%	9.80±3%	1500	15	31	1
GEP-Ae XXXPH	345±3%	38.1	9.06	46.50±3%	9.62±3%	1500	15	32	1
	340±3%	37.9	8.98	46.40±3%	9.58±3%	1500	15	32	1
	335±3%	37.7	8.89	46.30±3%	9.48±3%	1500	15	32	1
	330±3%	37.5	8.81	46.2±3%	9.38±3%	1500	15	32	1

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	325±3%	37.3	8.72	46.0±3%	9.30±3%	1500	15	32	1
	320±3%	37.1	8.64	45.9±3%	9.23±3%	1500	15	32	1
GEP-Af XXXMH	400±3%	40.0	10.00	48.6±3%	10.26±3%	1500	15	30	1
	395±3%	39.8	9.93	48.5±3%	10.20±3%	1500	15	30	1
	390±3%	39.6	9.85	48.4±3%	10.14±3%	1500	15	30	1
	385±3%	39.4	9.78	48.3±3%	10.08±3%	1500	15	31	1
	380±3%	39.2	9.70	48.2±3%	10.02±3%	1500	15	31	1
	375±3%	39.0	9.62	48.1±3%	9.96±3%	1500	15	31	1
	370±3%	38.8	9.54	48.0±3%	9.91±3%	1500	15	31	1
	365±3%	38.6	9.46	47.9±3%	9.86±3%	1500	15	31	1
	360±3%	38.4	9.38	47.8±3%	9.81±3%	1500	15	31	1
GEP-Af Mb XXXMH	430±3%	40.6	10.6	48.4±3%	11.32±3%	1500	25	30	1
	435±3%	40.8	10.67	48.6±3%	11.4±3%	1500	25	30	1
	440±3%	41.0	10.74	48.8±3%	11.47±3%	1500	25	30	1
	445±3%	41.2	10.81	49.0±3%	11.54±3%	1500	25	30	1
	450±3%	41.4	10.87	49.2±3%	11.61±3%	1500	25	30	1
GEP-Af Mc XXXMH	530±3%	41.31	12.83	49.2±3%	13.71±3%	1500	25	30	1
	535±3%	41.5	12.9	49.35±3%	13.78±3%	1500	25	30	1
	540±3%	41.65	12.97	49.5±3%	13.85±3%	1500	25	30	1
	545±3%	41.8	13.04	49.65±3%	13.92±3%	1500	25	30	1
	550±3%	41.95	13.11	49.8±3%	13.99±3%	1500	25	30	1
GEP-Ba+ XXXPH	265±3%	31.5	8.42	38.3±3%	9.04±3%	1500	15	39	1
	270±3%	31.6	8.55	38.5±3%	9.09±3%	1500	15	38	1
	275±3%	31.7	8.68	38.7±3%	9.14±3%	1500	15	38	1
	280±3%	31.8	8.81	38.9±3%	9.18±3%	1500	15	38	1
	285±3%	31.9	8.94	39.1±3%	9.21±3%	1500	15	38	1
	290±3%	32.0	9.07	39.3±3%	9.24±3%	1500	15	38	1
GEP-Bb+ XXXMH	315±3%	33.5	9.41	39.9±3%	9.97±3%	1500	15	37	1
	310±3%	33.2	9.34	39.8±3%	9.89±3%	1500	15	37	1
	305±3%	32.9	9.27	39.7±3%	9.81±3%	1500	15	37	1
	300±3%	32.6	9.21	39.6±3%	9.73±3%	1500	15	37	1

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GEP-Bf XXXMH	330±3%	34.1	9.68	40.5±3%	10.21±3%	1500	15	37	1
	325±3%	33.9	9.59	40.4±3%	10.13±3%	1500	15	37	1
	320±3%	33.7	9.50	40.3±3%	10.05±3%	1500	15	37	1
	315±3%	33.5	9.41	40.2±3%	9.97±3%	1500	15	37	1
	310±3%	33.3	9.32	40.1±3%	9.89±3%	1500	15	37	1
	305±3%	33.1	9.22	40.0±3%	9.81±3%	1500	15	37	1
	300±3%	32.9	9.12	39.9±3%	9.74±3%	1500	15	37	1
GEP-BfMb XXXMH	355±3%	33.7	10.54	40.3±3%	11.28±3%	1500	25	37	1
	360±3%	33.9	10.62	40.5±3%	11.35±3%	1500	25	37	1
	365±3%	34.1	10.71	40.7±3%	11.42±3%	1500	25	36	1
	370±3%	34.3	10.79	40.9±3%	11.49±3%	1500	25	36	1
	<b>375±3%</b>	<b>34.5</b>	<b>10.88</b>	<b>41.1±3%</b>	<b>11.56±3%</b>	<b>1500</b>	<b>25</b>	<b>36</b>	<b>1</b>
GEP-Be XXXPH	285±3%	31.9	8.94	38.7±3%	9.29±3%	1500	15	38	1
	280±3%	31.8	8.81	38.6±3%	9.24±3%	1500	15	38	1
	275±3%	31.7	8.68	38.5±3%	9.18±3%	1500	15	38	1
	270±3%	31.6	8.55	38.4±3%	9.14±3%	1500	15	39	1
GEP-CfMb XXXMH	355±3%	33.7	10.54	40.3±3%	11.28±3%	1500	25	37	1
	360±3%	33.9	10.62	40.5±3%	11.35±3%	1500	25	37	1
	365±3%	34.1	10.71	40.7±3%	11.42±3%	1500	25	36	1
	370±3%	34.3	10.79	40.9±3%	11.49±3%	1500	25	36	1
	<b>375±3%</b>	<b>34.5</b>	<b>10.88</b>	<b>41.1±3%</b>	<b>11.56±3%</b>	<b>1500</b>	<b>25</b>	<b>36</b>	<b>1</b>
GEP-DfMb XXXMH	430±3%	40.6	10.6	48.4±3%	11.32±3%	1500	25	30	1
	435±3%	40.8	10.67	48.6±3%	11.4±3%	1500	25	30	1
	440±3%	41.0	10.74	48.8±3%	11.47±3%	1500	25	30	1
	445±3%	41.2	10.81	49.0±3%	11.54±3%	1500	25	30	1
	450±3%	41.4	10.87	49.2±3%	11.61±3%	1500	25	30	1
GEP-DfMc XXXMH	530±3%	41.31	12.83	49.2±3%	13.71±3%	1500	30	30	1
	535±3%	41.5	12.9	49.35±3%	13.78±3%	1500	30	30	1
	540±3%	41.65	12.97	49.5±3%	13.85±3%	1500	30	30	1
	545±3%	41.8	13.04	49.65±3%	13.92±3%	1500	30	30	1
	550±3%	41.95	13.11	49.8±3%	13.99±3%	1500	30	30	1

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GEP-EfMb XXXMH	400±3%	36.24	11.04	45.25±3%	11.73±3%	1500	25	33	1
	405±3%	36.33	11.15	45.44±3%	11.84±3%	1500	25	33	1
	410±3%	36.42	11.26	45.62±3%	11.95±3%	1500	25	32	1
	415±3%	36.51	11.37	45.81±3%	12.06±3%	1500	25	32	1
GEP-Ef McXXXMH	485±3%	37.81	12.83	45.20±3%	13.72±3%	1500	25	33	1
	490±3%	37.99	12.90	45.33±3%	13.79±3%	1500	25	33	1
	495±3%	38.17	12.97	45.65±3%	13.85±3%	1500	25	32	1
	500±3%	38.35	13.04	45.59±3%	13.93±3%	1500	25	32	1
	505±3%	38.53	13.11	45.72±3%	14.00±3%	1500	25	32	1
GEP-Gf Mb XXXMH	400±3%	36.24	11.04	45.25±3%	11.73±3%	1500	25	33	1
	405±3%	36.33	11.15	45.44±3%	11.84±3%	1500	25	33	1
	410±3%	36.42	11.26	45.62±3%	11.95±3%	1500	25	32	1
	415±3%	36.51	11.37	45.81±3%	12.06±3%	1500	25	32	1
GEP-Gf Mc XXXMH	485±3%	37.81	12.83	45.20±3%	13.72±3%	1500	30	33	1
	490±3%	37.99	12.90	45.33±3%	13.79±3%	1500	30	33	1
	495±3%	38.17	12.97	45.65±3%	13.85±3%	1500	30	32	1
	500±3%	38.35	13.04	45.59±3%	13.93±3%	1500	30	32	1
	505±3%	38.53	13.11	45.72±3%	14.00±3%	1500	30	32	1
GEP-CaXXX PH	270±3%	31.39	8.60	37.90±3%	9.12±3%	1500	15	39	1
	275±3%	31.46	8.74	38.09±3%	9.22±3%	1500	15	39	1
	280±3%	31.53	8.88	38.28±3%	9.32±3%	1500	15	39	1
GEP-CbXXX MH	305±3%	32.94	9.26	39.75±3%	9.76±3%	1500	15	37	1
	310±3%	33.01	9.39	39.94±3%	9.86±3%	1500	15	37	1
	315±3%	33.09	9.52	40.13±3%	9.96±3%	1500	15	37	1
GEP-DaXXX PH	325±3%	37.67	8.63	45.30±3%	9.20±3%	1500	15	33	1
	330±3%	37.71	8.75	45.48±3%	9.30±3%	1500	15	32	1
	335±3%	37.77	8.87	45.66±3%	9.31±3%	1500	15	32	1
	340±3%	37.82	8.99	45.84±3%	9.41±3%	1500	15	32	1
GEP-DbXXX MH	365±3%	40.15	9.09	47.99±3%	9.75±3%	1500	15	31	1
	370±3%	40.22	9.20	48.16±3%	9.85±3%	1500	15	31	1
	375±3%	40.28	9.31	48.32±3%	9.95±3%	1500	15	31	1
	380±3%	40.34	9.42	48.47±3%	10.05±3%	1500	15	30	1

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	385±3%	40.40	9.53	48.63±3%	10.15±3%	1500	15	30	1
GEP-CeXXX PH	280±3%	32.08	8.73	38.06±3%	9.43±3%	1500	15	39	1
	285±3%	32.13	8.87	38.25±3%	9.53±3%	1500	15	39	1
	290±3%	32.19	9.01	38.44±3%	9.63±3%	1500	15	39	1
	295±3%	32.24	9.15	38.63±3%	9.73±3%	1500	15	38	1
GEP-CfMaX XXMH	325±3%	34.32	9.47	40.65±3%	10.25±3%	1500	15	36	1
	330±3%	34.37	9.60	40.84±3%	10.35±3%	1500	15	36	1
	335±3%	34.43	9.73	41.03±3%	10.45±3%	1500	15	36	1
	340±3%	34.48	9.86	41.22±3%	10.55±3%	1500	15	36	1
	345±3%	34.53	9.99	41.41±3%	10.65±3%	1500	15	36	1
GEP-DeXXX PH	335±3%	38.77	8.64	45.76±3%	9.37±3%	1500	15	32	1
	340±3%	38.86	8.75	45.95±3%	9.47±3%	1500	15	32	1
	345±3%	38.94	8.86	46.14±3%	9.57±3%	1500	15	32	1
	350±3%	39.02	8.97	46.33±3%	9.67±3%	1500	15	32	1
	355±3%	39.10	9.08	46.52±3%	9.77±3%	1500	15	32	1
GEP-DfMaX XXMH	380±3%	40.55	9.37	48.31±3%	9.97±3%	1500	15	31	1
	385±3%	40.61	9.48	48.50±3%	10.07±3%	1500	15	30	1
	390±3%	40.67	9.59	48.69±3%	10.17±3%	1500	15	30	1
	395±3%	40.72	9.70	48.88±3%	10.27±3%	1500	15	30	1
	400±3%	40.77	9.81	49.07±3%	10.37±3%	1000	15	30	1

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**绿能电力**

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