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Notice

The information in this user manual is subject to change due to product updates or other reasons. This guide cannot replace the product labels or the safety precautions in the user manual unless otherwise specified. All descriptions in the manual are for guidance only.

User Manual V	V1.1-2022-08-15	
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1 About This Manual

This manual describes the product information, installation, electrical connection, commissioning, troubleshooting, and maintenance. Read through this manual before installing and operating the product. All the installers and users have to be familiar with the product features, functions, and safety precautions. This manual is subject to update without notice. For more product details and latest documents, visit <u>https://en.goodwe.com/</u>.

1.1 Applicable Model

This manual applies to the listed inverters below (SDT G2 for short):

Model	Nominal Output Power	Nominal Output Voltage
GW4K-DT	4KW	230/400, 3L/N/PE
GW4000-SDT-20	4KW	400, 3L/N/PE
GW5K-DT	5KW	230/400, 3L/N/PE
GW5000-SDT-20	5KW	400, 3L/N/PE
GW6K-DT	6KW	230/400, 3L/N/PE
GW6000-SDT-20	6KW	400, 3L/N/PE
GW8K-DT	8KW	
GW10KT-DT	10KW	
GW12KT-DT	12KW	
GW15KT-DT	15KW	
GW17KT-DT	17KW	
GW20KT-DT	20KW	400, 3L/N/PE
GW25KT-DT	25KW	
GW8KAU-DT	8KW	
GW10KAU-DT	10KW	
GW15KAU-DT	15KW	
GW20KAU-DT	20KW	
GW8000-SDT-20	8KW	
GW10K-SDT-20	10KW	3/N/PE, 220/380, 230/400,
GW12K-SDT-20	12KW	240/415
GW12KLV-SDT-20	12KW	220/127, 3L/N/PE
GW15K-SDT-20	15KW	
GW17K-SDT-20	17KW	3/N/PE, 220/380, 230/400,
GW20K-SDT-20	20KW	240/415

1.2 Target Audience

This manual applies to trained and knowledgeable technical professionals. The technical personnel has to be familiar with the product, local standards, and electric systems.

1.3 Symbol Definition

Different levels of warning messages in this manual are defined as follows:

A DANGER
Indicates a high-level hazard that, if not avoided, will result in death or serious injury.
<u> </u> MARNING
Indicates a medium-level hazard that, if not avoided, could result in death or serious injury.
Indicates a low-level hazard that, if not avoided, could result in minor or moderate injury.
NOTICE
Highlight and supplement the texts. Or some skills and methods to solve product-related problems to save time.

1.4 Updates

The latest document contains all the updates made in earlier issues.

V1.0 2022-03-15

• First Issue

V1.1 2022-08-15

• Update 8.2.1 LCD Menu Introduction.

2 Safety Precaution

Notice

The inverters are designed and tested strictly complies with related safety rules. Read and follow all the safety instructions and cautions before any operations. Improper operation might cause personal injury or property damage as the inverters are electrical equipment.

2.1 General Safety

Notice

- The information in this document is subject to change due to product updates or other reasons. This manual cannot replace the product labels or the safety precaution unless otherwise specified. All descriptions here are for guidance only.
- Before installations, read through the user manual to learn about the product and the precautions.
- All installations should be performed by trained and knowledgeable technicians who are familiar with local standards and safety regulations.
- Use insulating tools and wear personal protective equipment when operating the equipment to ensure personal safety. Wear anti-static gloves, cloths, and wrist strips when touching electron devices to protect the inverter from damage.
- Strictly follow the installation, operation, and configuration instructions in this manual. The manufacturer shall not be liable for equipment damage or personal injury if you do not follow the instructions. For more warranty details, visit <u>https://en.goodwe.com/warranty.asp</u>.

2.2 DC Side

🚹 DANGER

Connect the DC cables using the delivered DC connectors and terminals. The manufacturer shall not be liable for the equipment damage if other connectors or terminals are used.

🗥 WARNING 🛛

- Ensure the component frames and the bracket system are securely grounded.
- Ensure the DC cables are connected tightly and securely.
- Measure the DC cable using the multimeter to avoid reverse polarity connection. Also, the voltage should be under the permissible range.
- The PV modules used with the inverter must have an IEC61730 class A rating.
- If there are more than 3 PV strings on input side, an additional fuse installation will be suggested.
- When exposed to sunlight, the PV array will generate very high voltage which can cause electrical shock hazard. Please strictly follow the instruction we provided.

2.3 AC Side

- The voltage and frequency at the connecting point should meet the on-grid requirements.
- An additional protective device like the circuit breaker or fuse is recommended on the AC side. Specification of the protective device should be at least 1.25 times the AC output rated current.
- You are recommended to use copper cables as AC output cables. Contact the manufacturer if you want to use other cables.

2.4 Inverter Installation

\Lambda DANGER

- Terminals at the bottom of the inverter cannot bear much load. Otherwise, the terminals will be damaged.
- All labels and warning marks must be clear and distinct after the installation. Do not block, alter, or damage any label.
- Warning labels on the inverter are as follows.

4	High voltage hazard. Power off the inverter first before any operations.	<u>.</u>	Potential risks exist. Wear proper PPE before any operations.
	Read through the guide before any operations.	1 Smin	Delayed discharge. Wait until the components are totally discharged after power off.
<u></u>	High-temperature hazard. Do not touch the equipment to avoid being burnt.	X	Do not dispose of the product as household waste. Discard the product in compliance with local laws and regulations, or send it back to the manufacturer.
(€	CE marking.		Grounding point. Indicates the position for connecting the PE cable.
	RCM marking.	NA	NA

2.5 Personal Requirements

NOTICE

- Personnel who install or maintain the equipment must be strictly trained, learn about safety precautions and correct operations.
- Only qualified professionals or trained personnel are allowed to install, operate, maintain, and replace the equipment or parts.

3 Product Introduction

3.1 Application Scenarios

The SDT G2 Series inverter is a three-phase PV string grid-tied inverter. The inverter converts the DC power generated by the PV module into AC power and feeds it into the utility grid. The intended use of the inverter is as follows:



3.2 Supported Grid Types

For the grid type with neutral wire, the N to ground voltage must be less than 10V.





03 Product Introduction

User Manual V1.1-2022-08-15

3.4 Appearance

3.4.1 Parts



13. Fan

10.

RS485 or Smart

Meter COM Port

12. AC Output Port

DRED or Remote

Shutdown COM Port

11.

03 Product Introduction





GW8KAU-DT, GW10KAU-DT, GW15KAU-DT, GW20KAU-DT, GW17KT-DT, GW20KT-DT, GW25KT-DT

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GW20K-SDT-20

GW12K-SDT-20, GW12KLV-SDT-20,

GW15K-SDT-20, GW17K-SDT-20,

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10 11 12

13



GW8000-SDT-20, GW10K-SDT-20

- LED Indicator 1.
- 4. PE Terminal
- USB Port (For Brazil 7. only)
- DRED or Remote 10.
- Shutdown COM Port
- 13. AC Output Port 14. Ventilation Valve

- LCD (optional) 2.
- 5. **Mounting Plate**
- **PV** Input Terminal 8. (PV1)^[1]
- Bluetooth or Wi-Fi/ 11. LAN Kit or WiFi or 4G or

6

12. GPRS Port

14

- Button (optional) 3.
- DC Switch 6.
- 9. PV Input Terminal (PV2)
 - RS485 or Smart Meter COM Port
- 15. Fan^[2]

[1]: GW25KT-DT: 3 x PV+/PV-; other models: 2 x PV+/PV-[2]: Without Fan: GW8KAU-DT, GW10KAU-DT

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Name	Description	
PV Input Terminal	Used to connect the PV module DC input cables.	
DC Switch	Start or stop DC input.	
USB Port	Reserved. USB Port is used for system upgrade and configuration.	
Ventilation valve	-	
Communication Port	Used to connect communication modules like Bluetooth, WiFi, LAN, 4G, etc.	
Smart Meter + RS485	Used to connect the Smart Meter or RS485 communication cable.	
DRED(6Pin) / Remote Shutdown (2pin)	Used to connect DRED or remote shutdown communication cable. DRED for Australia and New Zealand, Remote Shutdown only for Europe.	
AC Output Terminal	Used to connect AC output cable. Connect the inverter and the utility grid.	
Fans	Used to cool the inverter. Without Fan: GW8KAU-DT, GW10KAU-DT.	
LED Indicator	Indicates working state of the inverter	
LCD	Optional. Used to check the parameters of the inverter.	
Button	Optional. Used to control contents displayed on the screen.	
Grounding Point	Used to connect the PE cable.	
Mounting Plate	Used to install the inverter.	

3.4.2 Dimension

Dimensions of GW4K-DT, GW4000-SDT-20, GW5K-DT, GW5000-SDT-20, GW6K-DT, GW6000-SDT-20, GW10KT-DT:





Dimensions of GW8K-DT, GW10KT-DT, GW12KT-DT, GW15KT-DT:





Dimensions of GW8KAU-DT, GW10KAU-DT, GW15KAU-DT, GW20KAU-DT, GW17KT-DT, GW20KT-DT, GW25KT-DT, GW8000-SDT-20, GW10K-SDT-20:





03 Product Introduction

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Dimensions of GW12K-SDT-20, GW12KLV-SDT-20, GW15K-SDT-20, GW17K-SDT-20, GW20K-SDT-20:



3.4.3 Indicators

As a human-computer interaction interface, LCD display panel comprises of LED indicators, buttons and LCD display on the front panel of the inverter. LED indicates the working status of the inverter. Buttons and LCD are used for configuration and viewing parameters.

Inverters Designed with LCD



Indicator	Status	Description	
		ON = Wi-Fi IS CONNECTED/ACTIVE	
		BLINK 1 = Wi-Fi SYSTEM IS RESETTING	
		BLINK 2 = NOT CONNECTED TO THE ROUTER	
		BLINK 4 = Wi-Fi SERVER PROBLEM	
		BLINK = RS485 IS CONNECTED	
		OFF = Wi-Fi IS NOT ACTIVE	
		ON = THE INVERTER IS FEEDING POWER	
		OFF = THE INVERTER IS NOT FEEDING POWER AT THE MOMENT	
		ON = A FAULT HAS OCCURRED	
🗥		OFF = NO FAULT	

03 Product Introduction

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Inverters Designed without LCD



Indicator	Status	Description	
		ON = EQUIPMENT POWER ON	
		OFF = EQUIPMENT POWER OFF	
		ON = THE INVERTER IS FEEDING POWER	
		OFF = THE INVERTER IS NOT FEEDING POWER	
		SINGLE SLOW FLASH = SELF CHECK BEFORE CONNECTING TO THE GRID	
		SINGLE FLASH = CONNECTING TO THE GRID	
		ON = WIRELESS IS CONNECTED/ACTIVE	
	шшш	BLINK 1 = WIRELESS SYSTEM IS RESETTING	
		BLINK 2 = WIRELESS ROUTER PROBLEM	
		BLINK 4 = WIRELESS SERVER PROBLEM	
		BLINK = RS485 IS CONNECTED	
		OFF = WIRELESS IS NOT ACTIVE	
\wedge		ON = A FAULT HAS OCCURRED	
		OFF = NO FAULT	

Do not dispose of the product as household waste. Discard the

product in compliance with local laws and regulations, or send it back to the manufacturer.

RCM Mark.

3.4.4 Nameplate

The nameplate is for reference only.

Produ Model Vmax P	C:: Grid-Tied PV Inverter	Goodwe product	trademark, product type, and model
MPPT v Max. PV Isc PV: ¹ Rated g AC-grid Max cur Rated <i>it</i> Rated/It Inverter Power f Operatin Overvol IP degre Protecti	<pre>bitage range: ****Vd.c. / current: **/*Ad.c. **.//**Ad.c. ind voltage:3/NVPE- **/***,***/***Va.c. frequency: **/**Hz rent: **.*A a.c. active power: *kW lax apparent power: **/**kV A topology: Non-isolated actor range: Default >*.**,**cap*,*ind ng temperature range: -****°C tage-category: DC II :AC III be: IP65 ve class: Class I</pre>	Technica	l parameters
		Safety sy	mbols and certification marks
GoodWe Te E-mail: servi	chrologies Co., Ltd. ce@goodwe.com S/N	Contact number	information and serial
4	High voltage hazard. Power off the inverter before any operations.		Potential risks exist. Wear proper PPE before any operations.
	Read through the user manual before any operations.		Delayed discharge. Wait until the components are discharged after power off.

X

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High-temperature hazard. Do not touch the equipment to avoid being hurt.

CE Mark.

<u>____</u>

CE

4 Check and Storage

4.1 Check Before Receiving

Check the following items before receiving the product.

- 1. Check the outer packing box for damage, such as holes, cracks, deformation, and others signs of equipment damage. Do not unpack the package and contact the supplier as soon as possible if any damage is found.
- 2. Check the inverter model. If the inverter model is not what you requested, do not unpack the product and contact the supplier.
- 3. Check the deliverables for correct model, complete contents, and intact appearance. Contact the supplier as soon as possible if any damage is found.



4.2 Deliverables

04 Check and Storage

NOTICE

- The number of expansion bolts, screws, PV connectors, AC cable OT Terminal, and PIN terminals are various depending on the different inverters. The actual accessories may differ.
- Communication module types including WiFi, 4G, LAN, GPRS, Bluetooth, etc. The actual module delivered depends on the communication method of the selected inverter.
- The model of the AC connector and mounting bracket are various depending the different inverters. The actual accessories may differ.
- Only model GW15KAU-DT and GW20KAU-DT are equipped with PV box and PV box bracket.

4.3 Storage

If the equipment is not to be installed or used immediately, please ensure that the storage environment meets the following requirements:

- 1. Do not unpack the outer package or throw the desiccant away.
- 2. Store the equipment in a clean place. Make sure the temperature and humidity are appropriate and no condensation.
- 3. The height and direction of the stacking inverters should follow the instructions on the packing box.
- 4. The inverters must be stacked with caution to prevent them from falling.
- 5. If the inverter has been long term stored, it should be checked by professionals before being put into use.

5 Installation

5.1 Installation Requirements

Installation Environment Requirements

- 1. Do not install the equipment in a place near flammable, explosive, or corrosive materials.
- 2. Install the equipment on a surface that is solid enough to bear the inverter weight.
- 3. Install the equipment in a well-ventilated place to ensure good dissipation. Also, the installation space should be large enough for operations.
- 4. The equipment with a high ingress protection rating can be installed indoors or outdoors. The temperature and humidity at the installation site should be within the appropriate range.
- 5. Install the equipment in a sheltered place to avoid direct sunlight, rain, and snow. Build a sunshade if it is needed.
- 6. Do not install the equipment in a place that is easy to touch, especially within children's reach. High temperature exists when the equipment is working. Do not touch the surface to avoid burning.
- 7. Install the equipment at a height that is convenient for operation and maintenance, electrical connections, and checking indicators and labels.
- 8. Install the equipment away from electromagnetic interference.



Mounting Support Requirements

- 1. The mounting support shall be nonflammable and fireproof.
- 2. Make sure that the support surface is solid enough to bear the product weight load.
- 3. Do not install the product on the support with poor sound insulation to avoid the noise generated by the working product, which may annoy the residents nearby.

05 Installation 📕

Installation Angle Requirements

- Install the inverter vertically or at a maximum back tilt of 15 degrees.
- Do not install the inverter upside down, forward tilt, back forward tilt, or horizontally.



Installation Tool Requirements

The following tools are recommended when installing the equipment. Use other auxiliary tools on site if necessary.



5.2 Inverter Installation

5.2.1 Moving the Inverter

Move the inverter to the site before installation. Follow the instructions below to avoid personal injury or equipment damage.

- 1. Consider the weight of the equipment before moving it. Assign enough personnel to move the equipment to avoid personal injury.
- 2. Wear safety gloves to avoid personal injury.
- 3. Keep balance when moving the equipment.

5.2.2 Installing the Inverter

NOTICE

- Avoid the water pipes and cables buried in the wall when drilling holes.
- Wear goggles and a dust mask to prevent the dust from being inhaled or contacting eyes when drilling holes.
- The anti-theft lock of appropriate size should be prepared by customers. Diameter of the lock hole is 10mm.
- Make sure that all the DC input terminals are inside the PV box when installing the box. Install the box cling to the bottom of the inverter.

Step 1 Put the mounting plate on the wall horizontally and mark positions for drilling holes.Step 2 Drill holes to a depth of 80mm using the hammer drill. The diameter of the drill bit should be 10mm.

Step 3 Secure the mounting plate using the expansion bolts.

Step 4 Install the inverter on the mounting plate.

Step 5 Tighten the nuts to secure the mounting plate and the inverter.

Step 6 Install the anti-theft lock.

Step 7 (For Australia and New Zealand) Install the PV box and the PV box mounting plate together using the delivered M5 screws.

Step 8 (For Australia and New Zealand) Drill holes to a depth of 60mm using the hammer drill. The diameter of the drill bit should be 8mm.

Step 9 (For Australia and New Zealand) Secure the PV box at the bottom of the inverter using the delivered expansion bolts.

05 Installation 📕

NOTICE

Installation method of GW4K-DT, GW4000-SDT-20, GW5K-DT, GW5000-SDT-20, GW6K-DT, GW6000-SDT-20, GW10KT-DT, GW12KT-DT, GW15KT-DT inverter:



NOTICE

Installation method of GW8KAU-DT, GW10KAU-DT, GW15KAU-DT, GW20KAU-DT, GW17KT-DT, GW20KT-DT, GW25KT-DT, GW8000-SDT-20, GW10K-SDT-20, GW12K-SDT-20, GW12KLV-SDT-20, GW15K-SDT-20, GW17K-SDT-20, GW20K-SDT-20 inverter:



▶ 05 Installation

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NOTICE For Australia and New Zealand: GW15KAU-DT, GW20KAU-DT.



6 Electrical Connection

6.1 Safety Precautions

🚹 DANGER

- Disconnect the DC switch and the AC output switch of the inverter to power off the equipment before any electrical connections. Do not work with power on. Otherwise, an electric shock may occur.
- Perform electrical connections in compliance with local laws and regulations. Including operations, cables, and component specifications.
- If the tension is too large, the cable may be poorly connected. Reserve a certain length of the cable before connecting it to the inverter cable port.

NOTICE

- Wear personal protective equipment like safety shoes, safety gloves, and insulating gloves during electrical connections.
- All electrical connections should be performed by qualified professionals.
- Cable colors in this document are for reference only. The cable specifications should meet local laws and regulations.

6.2 Connecting the PE Cable

- The PE cable connected to the enclosure of the inverter cannot replace the PE cable connected to the AC output port. Both of the two PE cables must be securely connected.
- Make sure that all the grounding points on the enclosures are equipotential connected when there are multiple inverters.
- To improve the corrosion resistance of the terminal, it is recommended to apply silica gel or paint on the ground terminal after installing the PE cable.
- The PE cable should be prepared by customers. Recommended specifications:
- Type: single-core outdoor copper cable.
- Conductor crosssectional area S≥10mm² (GW8000-SDT-20, GW10K-SDT-20, GW12K-SDT-20, GW12KLV-SDT-20, GW15K-SDT-20, GW17K-SDT-20, GW20K-SDT-20).
- Conductor crosssectional area S≥4mm² (Other models).





6.3 Connecting the PV Input Cable

\rm **DANGER**

Confirm the following information before connecting the PV string to the inverter. Otherwise, the inverter may be damaged permanently or even cause fire and cause personal and property losses.

- 1. Make sure that the max short circuit current and the max input voltage per MPPT are within the permissible range.
- 2. Make sure that the positive pole of the PV string connects to the PV+ of the inverter. And the negative pole of the PV string connects to the PV- of the inverter.
- 3. The minimum impedance to earth of the PV module shall be greater than R. R=Max.Input Voltage (V)/30mA, i.e. R=1100V/30mA=36.7KΩ or R=1000V/30mA=33.4KΩ).

\Lambda WARNING

- Connect the DC cables using the delivered PV connectors. The manufacturer shall not be liable for the damage if other connectors are used.
- The PV strings cannot be grounded. Ensure the minimum isolation resistance of the PV string to the ground meets the minimum isolation resistance requirements before connecting the PV string to the inverter.
- The DC input cable should be prepared by customers. Recommended specifications:
 - Type: the outdoor photovoltaic cable that meets the maximum input voltage.
 - Conductor cross-sectional area: 2.5~4mm²



06 Electrical Connection 📕

NOTICE

Seal the PV input terminals using waterproof covers when they are not to be used. Otherwise, the ingress protection rating will be influenced.

Connecting the DC Input Cable(with PV box)

NOTICE

The PV box should be installed when GW15KAU-DT or GW20KAU-DT is used in Australia and in New Zealand. Install the cover of the PV box after connecting the DC input cable to the equipment.

Step 1 Route the DC cables into the PV box.

- **Step 2** Prepare DC cables.
- **Step 3** Crimp the crimp contacts.

Step 4 Disassemble the PV connectors.

- **Step 5** Make the DC cable and detect the DC input voltage.
- **Step 6** Plug the PV connectors into the PV terminals.
- **Step 7** Install the PV box cover.

Devalan DC Connector







06 Electrical Connection 📕



06 Electrical Connection

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Connecting the DC Input Cable (without PV box)

Step 1 Prepare DC cables.

Step 2 Crimp the crimp contacts.

Step 3 Disassemble the PV connectors.

Step 4 Make the DC cable and detect the DC input voltage.

Step 5 Plug the PV connectors into the PV terminals.

Devalan DC Connector



06 Electrical Connection 📕

Staubli MC4 DC Connector



6 Electrical Connection

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6.4 Connecting the AC Output Cable

\Lambda WARNING

- Do not connect loads between the inverter and the AC switch directly connected to it.
- Where an external RCD (Residual Current Device) is required in addition to the built-in
- RCMU (Residual Current Monitoring Unit), a type A RCD must be used to avoid tripping. The action current of RCD should be 300mA or higher.

An AC circuit breaker should be installed on the AC side to make sure that the inverter can safety disconnect the grid when an exception happens. Select the appropriate AC circuit breaker in compliance with local laws and regulations. Recommended AC circuit breakers:

Inverter model	AC circuit breaker
GW4K-DT, GW4000-SDT-20, GW5K-DT, GW5000-SDT-20, GW6K-DT, GW6000-SDT-20	16A
GW8K-DT, GW8KAU-DT, GW10KT-DT, GW10KAU-DT, GW8000-SDT-20, GW10K-SDT-20,	25A
GW12KT-DT, GW15KT-DT, GW15KAU-DT, GW17KT-DT, GW12K-SDT-20, GW12KLV-SDT-20, GW15K-SDT-20	32A
GW20KT-DT, GW20KAU-DT, GW17K-SDT-20, GW20K- SDT-20	40A
GW25KT-DT	50A

NOTICE

Install one AC circuit breaker for each inverter. Multiple inverters cannot share one AC circuit breaker.

Cable Type	Five-core outdoor copper cable
Outside Diameter	4-10kW:13mm≤Φ≤18mm 12-15kW:18mm≤Φ≤25mm
Conductor cross-sectional area	4-10kW: 4mm²≤S≤10mm² 12-15kW: 6mm²≤S≤16mm²

WARNING

- Pay attention to the silkscreens L1, L2, L3, N, PE on the AC terminal. Connect the AC cables to the corresponding terminals. The inverter may be damaged if the cables are connected inappropriately.
- Make sure that the whole cable cores are inserted into the AC terminal holes. No part of the cable core can be exposed.
- Make sure that the cables are connected securely. Otherwise, the terminal may be too hot to damage the inverter when the inverter is working.
- Reserve certain length of PE cable. Make ensure that the PE cable is the last one to bear the stress when the AC output cable is under tension.

06 Electrical Connection



6 Electrical Connection

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NOTICE

For models: GW8000-SDT-20, GW10K-SDT-20, GW12K-SDT-20, GW12KLV-SDT-20, GW15K-SDT-20, GW17K-SDT-20, GW20K-SDT-20.



NOTICE

- Make sure that the cables are connected correctly and firmly after connections. Clean all the debris in the maintenance compartment.
- Seal the AC output terminal to ensure the Ingress Protection Rating.

06 Electrical Connection 📕



NOTICE

- Make sure that the cables are connected correctly and firmly after connections. Clean all the debris in the maintenance compartment.
- Seal the AC output terminal to ensure the Ingress Protection Rating.

6 Electrical Connection

6.5 Communication

6.5.1 Connecting the Communication Cable (optional)

NOTICE

Make sure that the communication device is connected to the right COM port. Route the communication cable far away from any interference source or power cable to prevent the signal from being influenced.

Communication Type	Port Definition	Function Description
RS485	1: RS485 B 2: RS485 B 3: RS485 A 4: RS485 A	Used to connect the inverter to other inverters or the RS485 port on the data logger.
Meter Communication	5: Meter + 6: Meter -	Realize the anti-backfeed function by connecting the meter and the CT. Contact the manufacturer to purchase the devices if you need them.
DRED	1: DRM1/5 2: DRM2/6 3: DRM3/7 4: DRM4/8 5: REFGen 6: Com/DRM0	The DRED port is reserved in compliance to grid regulations in Australia and New Zealand. Related devices should be prepared by customers. Contat the after-sales service to get the DRED terminal if you need to use DRED function. DRED function is off by default. Start this function via SolarGo App if it's needed.
Remote Shutdown	+:DRM4/8 -: REFGen	The Remote Shutdown port is reserved in compliance to grid regulations in Europe. Related devices should be prepared by customers. Remote Shutdown function is off by default. Start this function via SolarGo App if it's needed.
06 Electrical Connection 📕





Power limit networking scenario (multi inverters)



06 Electrical Connection

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Connecting the Communication Cable(RS485, Meter, and DRED)

NOTICE

Connect the RS485 cable, meter cable, and DRED cable using a 6PIN communication terminal as follows.



06 Electrical Connection

Connecting the Communication Cable(RS485, Meter, and Remote shutdown)

NOTICE Connect the remote shutdown cable using a 2PIN communication terminal as follows.



06 Electrical Connection

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Connecting the Communication Cable(USB)

USB Port: For Brazil only.



6.5.2 Installing the Communication Module (optional)

Plug a communication module into the inverter to establish a connection between the inverter and the smartphone or web pages. The communication module can be a Bluetooth module, WiFi module, LAN module, or 4G module. Set inverter parameters, check running information and fault information, and observe system status in time via the smartphone or web pages.



NOTICE

- Refer to the delivered communication module user manual to get more introduction to the module. For more detailed information, visit <u>https://en.goodwe.com/</u>.
- Remove the communication module using the unlock tool. The manufacturer shall not be liable for the port damage if the module is removed without the unlock tool.

7 Equipment Commissioning

7.1 Check Items Before Switching Power ON

No.	Check Item
1	The inverter is firmly installed in a clean place where is well-ventilated and easy to operate.
2	The PE cable, DC input cable, AC output cable, and communication cable are connected correctly and securely.
3	Cable ties are routed properly and evenly, and no burrs.
4	Unused ports and terminals are sealed.
5	The voltage and frequency at the connection point meet the on-grid requirements.

7.2 Power On

Step 1 Turn on the AC switch between the inverter and the utility grid.

- **Step 2** (optional) Turn on the DC switch between the inverter and the PV string.
- **Step 3** Turn on the DC switch between the inverter and the PV String.



8 System Commissioning

8.1 Indicators and Button

Inverters Designed with LCD



Туре	Status		Description	
		Steady yellow	Communication status is normal.	
		Single yellow blinking	Communication is reseting or restarting.	
Power		Double yellow blinking	The inverter is not connected to the router.	
		Quadruple yellow blinking	The inverter is not connected to the server.	
		Yellow blinking	RS485 is working normally.	
		Off	No communication.	
		Steady green	The inverter is grid-tied successfully.	
Operating		Off	The inverter is off grid.	
		Steady red	System fault.	
Alarming		Off	No fault.	

Inverters Designed without LCD



Type Status			Description	
(')		Steady Green	Power on.	
Power		Off	Power off.	
		Steady Green	The power grid is working normally. The inverter is on grid.	
		Off	The inverter is off grid.	
Operating		Single Green Slow Blinking	Self-check before grid tying.	
		Single Green Fast Blinking	The inverter is to be grid-tied.	
		Steady green	The Communication module is working properly.	
		Quartic Green Blinking	The inverter is not connected to the server.	
SEMS	u_u_	Double Green Blinking	The inverter is not connected to the router.	
		Single Green Slow Blinking	RS485 is working normally.	
		Single Green Fast Blinking	Communication is reseting or restarting.	
		Off	No communication.	
Alarming		Steady Red	System Fault.	
		Off	No fault.	

LCD Button Description

Stop pressing the button for a period in any page, the LCD will get dark and go back to the initial page, which means the parameter in that page has been saved successfully.

8.2 Setting Inverter Parameters via LCD

NOTICE

- Inverter software version shown in this document is V1.00.00.13. The screen shots are for reference only. The actual display may differ.
- The name, range, and default value of the parameters is subject to change or adjust. The actual display prevails.
- the power parameters should be set by professionals to prevent the generating capacity from being influenced by wrong parameters

8.2.1 LCD Menu Introduction

This part describes the menu structure, allowing you view inverter information and set parameters more conveniently.





Next page



8.2.2 Inverter Parameter Introduction

Parameters	Description
Normal	Home page. Indicates the real-time power of the inverter. Long press for 2s to check the current safety code.
E-Today	Check the generated power of the system for that day.
E-Total	Check the total generated power of the system.
Vpv	Check the DC input voltage of the inverter.
Ірч	Check the DC input current of the inverter.
Vac	Check the voltage of the utility grid.
Iac	Check the AC output current of the inverter.
Fac	Check the frequency of the utility grid.

08 System Commissioning 📕

Parameters	Description			
Error History	Check historical error message records of the inverter.			
Model	Indicates the specific inverter model. Long press for 2s to set the safety code. Set the safety country in compliance with the local grid standards and application scenario of the inverter.			
Ver Check the software version.				
Set Language	Set language accordingly. Languages: English, Portuguese, Spanish.			
Set Time	Set time according to the actual time in the country/region where the inverter is located.			
RSSI	Indicates the received signal strength of the GPRS module and 4G module.			
W/L Reset	Power off and restart the WiFi module.			
W/L Reload	Restore the factory settings of the WiFi module. Reconfigure the WiFi module network parameters after restoring the factory settings,			
PF Adjust	Set the power factor of the inverter according to actual situation.			
Time Interval	Set Time Interval according to actual needs.			
Shadow MPPT	Enable the shadow scan function if the PV panels are shadowed.			
Power Limit	 Soft limit: Set the power feed into the utility grid according to local requirements and standards. Hard limit: The inverter and the utility grid will automatically disconnect when the power feeds into the grid excesses the required limit. 			
Set Power Limit	Set the power feed back into the utility grid according to the actual situation.			
Set Modbus Addr	Set the actual Modbus address.			
LVRT	With LVRT on, the inverter will stay connected with the utility grid when a short-term utility grid low voltage exception occurs.			
HVRT	With HVRT on, the inverter will stay connected with the utility grid when a short-term utility grid high voltage exception occurs.			
Grid Type	Set the grid type according to the actual grid type. Supported grid type: star grid and delta grid.			
Set ARC	ARC is optional and off by default. Enable or disable ARC accordingly.			
Fault Clear	Clear ARC alarm records.			
Self Check	Check whether ARC can work normally.			
USB Mode Select	Reserved for troubleshooting by after-sales service staff.			

08 System Commissioning

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8.3 Setting Inverter Parameters via App

SolarGo is an application used to communicate with the inverter via Bluetooth module, WiFi module, or GPRS module. Commonly used functions:

- 1. Check the operating data, software version, alarms of the inverter, etc.
- 2. Set grid parameters and communication parameters of the inverter.
- 3. Maintain the equipment.

For more details, refer to the SolarGo APP User Manual. Scan the QR code or visit <u>https://en.goodwe.com/Ftp/EN/Downloads/User%20Manual/GW_SolarGo_User%20Manual-EN.pdf</u> to get the user manual.





SolarGo App

SolarGo App User Manual

8.4 Monitoring via SEMS Portal

SEMS Portal is an monitoring platform used to manage organizations/users, add plants, and monitor plant status.

For more details, refer to the SEMS Portal User Manual. Scan the QR code or visit <u>https://en.goodwe.com/Ftp/EN/Downloads/User%20Manual/GW_SEMS%20Portal-User%20Manual-EN.pdf</u> to get the user manual.





SEMS Portal

SEMS Portal User Manual

09 Maintenance 🛃

9 Maintenance

9.1 Power Off the Inverter

\rm \Lambda DANGER

- Power off the inverter before operations and maintenance. Otherwise, the inverter may be damaged or electric shocks may occur.
- Delayed discharge. Wait until the components are discharged after power off.

Step 1 (optional) Send shutdown command to the inverter,

Step 2 Turn off the AC switch between the inverter and the utility grid.

Step 3 Turn off the DC switch of the inverter.

Step 4 (optional) Turn off the DC switch between the inverter and the PV string.

9.2 Removing the Inverter

🔨 WARNING

- Make sure that the inverter is powered off.
- Wear proper PPE before any operations.

Step 1 Disconnect all the cables, including DC cables, AC cables, communication cables, the communication module, and PE cables.

Step 2 Remove the inverter from the mounting plate.

Step 3 Remove the mounting plate.

Step 4 Store the inverter properly. If the inverter needs to be used later, ensure that the storage conditions meet the requirements.

9.3 Disposing of the Inverter

If the inverter cannot work any more, dispose of it according to the local disposal requirements for electrical equipment waste. Do not dispose of it as household waste.

9.4 Troubleshooting

Perform troubleshooting according to the following methods. Contact the after-sales service if these methods do not work.

Collect the information below before contacting the after-sales service, so that he problems can be solved quickly.

- 1. Inverter information like serial number, software version, installation date, fault time, fault frequency, etc.
- 2. Installation environment, including weather conditions, whether the PV modules are sheltered or shadowed, etc. It is recommended to provide some photos and videos to assist in analyzing the problem.
- 3. Utility grid situation.

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No.	Fault	Cause	Solutions		
1	Ver. Error	Wrong software version.	Contact after-sales service to upgrade the software.		
2	Utility Loss	 Utility grid power failure. The AC circuit or the AC breaker is disconnected. 	 Check whether other electrical devices under the same grid connection point is working normally and whether the main supply is normal. Make sure that the upstream switches of the inverter are connected. Make sure that the phase sequence of the AC cables are connected correctly, and the neutral wire and PE cable are connected properly and firmly. 		
3	Vac Fail	The utility grid voltage is out of the allowed range.	 Make sure that the grid voltage is within the allowed range. Make sure that the phase sequence of the AC cables are connected correctly, and the neutral wire and PE cable are connected properly and firmly. 		
4	Fac Fail	The utility grid frequency is out of the allowed range.	 Check whether other electrical devices under the same grid connection point is working normally, and whether the main supply is normal. Make sure that the grid frequency is within the allowed range. Make sure that the phase sequence of the AC cables are connected correctly, and the neutral wire and PE cable are connected properly and firmly. Pay attention to the frequency of the fault. If it happens occasionally, the fault may be caused by the instantaneous utility grid frequency change and does not need to be handled. 		

09 Maintenance 📕

No.	Fault	Cause	Solutions
5	Isolation Fail	 The PV system is short-circuited to the ground. The PV system is in a moist environment and the circuit is not well insulated to the ground. 	 Check whether the PV input cables are broken. Check whether the module frames and the metal bracket are securely grounded. Check whether the AC side is properly grounded Inverters sold in Australia and New Zealand will also alarm as following when Isolation Fail occurs. Inverters support WiFi communication: An email about the fault will be sent to the user automatically. Inverters do not support WiFi communication: The buzzer in the inverter will sound for 1 minute. If the problem persists, the buzzer will sound every 30 min.
6	DC inject High	DC injection exceeds the allowed range.	 Check whether the software version is the latest one. Restart the inverter and check whether the inverter can work properly.
7	Ground I Fail	The input insulation impedance to the ground decreases when the inverter is operating.	 Check whether the working environment of the inverter meets the requirements. For example, the fault may occur due to high humidity on rainy days Make sure that the components are properly grounded and the AC side is properly grounded.
8	PV Over Voltage	Excess PV modules are connected in the series, and the open-circuit voltage is higher than the operating voltage.	 Check whether the PV string input voltage consistent with the value displayed on the LCD. Check whether the PV string voltage meets the maximum input voltage requirements.

09 Maintenance

No.	Fault	Cause	Solutions
9	Over Temperature	 The inverter is installed in a place with poor ventilation. The ambient temperature is too high. The inverter is working improperly. 	 Check the installation environment and space of the inverter. Make sure that the ventilation meets heat dissipation requirements. Make sure that the fans are working properly and not covered or blocked. Check whether the operating ambient temperature is too high.
10	AFan Fail	A fault occurs in all fans of the inverter.	1. Restart the inverter and check whether
11	EFan Fail	A fault occurs on the external fan of the inverter.	 Make sure that the fans are working properly and not covered or blocked.
12	IFan Fail	A fault occurs in the internal fan of the inverter.	 Restart the inverter and check whether the inverter can work normally. A fault occurs in the internal fan, contact after-sales service.
13	ARC Fault	The PV string cables arc or are in poor contact.	 Check whether the PV terminals and cables are connected properly. Clear the error messages. Contact after-sales service if the fault occurs frequently.
14	DC Bus High		
15	SPI Fail		
16	Ref 1.5V Fail		1. Make sure that the software version is
17	AC HCT Fail	Inverter internal fault.	the latest one. 2. Restart the inverter to check whether
18	GFCI Fail		the inverter can work properly.
19	Relay Check Fail		
20	EEPROM R/W Fail		

9.5 Routine Maintenan	ce
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Maintaining Item	Maintaining Method	Maintaining Period	
System Clean	Check the heat sink, air intake, and air outlet for foreign matter or dust.	Once 6-12 months	
Fan	Check the fan for proper working status, low noise, and intact appearance.	Once a year	
DC Switch	Turn the DC switch on and off ten consecutive times to make sure that it is working properly.	Once a year	
Electrical Connection	Check whether the cables are securely connected. Check whether the cables are broken, or whether there is any exposed copper core.	Once 6-12 months	
Sealing	Check whether all the terminals and ports are properly sealed. Reseal the cable hole if it is not sealed or too big.	Once a year	
THDi Test	For Australia requirements, in the THDi test, there should add Zref between inverter and mains. Zref: Zmax or Zref (phase current>16A) Zref: L: $0.24 \Omega + j0.15 \Omega$; N: $0.16 \Omega + j0.10 \Omega$ Ω (phase current>16A, <21.7A) Zref: L: $0.15 \Omega + j0.15 \Omega$; N: $0.1 \Omega + j0.1 \Omega$ (phase current>21.7A, <75A) Zref: \geq 5% Un/Irated+j5% Un/Irated (phase current>75A)	As needed	

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Technical Data	GW4K-DT	GW5K-DT	GW6K-DT	GW8K-DT		
Input						
Max.Input Power (W)	6000	7500	9000	12000		
Max.Input Voltage(V)	1000	1000	1000	1000		
MPPT Operating Voltage Range (V)	180~850	180~850	180~850	180~850		
MPPT Voltage Range at Nominal Power (V)	410~800	410~800	410~800	410~800		
Start-up Voltage (V)		1	60			
Nominal Input Voltage (V)	620	620	620	620		
Max. Input Current per MPPT (A)		1	2.5			
Max. Short Circuit Current per 15.6						
Max.Backfeed Current to The Array(A)	0	0	0	0		
Number of MPP trackers	2	2	2	2		
Number of Strings per MPPT	1	1	1	1		
Output						
Nominal Output Power (W)	4000	5000	6000	8000		
Nominal Output Apparent Power (VA)	4000	5000	6000	8000		
Max. AC Active Power (W)*1	4400	5500	6600	8800		
Max. AC Apparent Power (VA) *2	4400	5500	6600	8800		
Nominal Power at 40°C(W)	4000	5000	6000	8000		
Max Power at 40°C (including AC overload)(W)	4000	5000	6000	8000		
Nominal Output Voltage (V)	400, 3L/N/PE					
Output Voltage Range (V)	180~270 (According to local standard)			dard)		
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50/60		
AC Grid Frequency Range (Hz)	45~55 / 55-65					
Max. Output Current (A)	6.4	8.0	9.6	12.8		

Max. Output Fault Current (Peak and Duration) (A)(at 5ms)	22			
Inrush Current (Peak and Duration) (A)(at 50µ s)	10			
Nominal Output Current (A)	5.8 7.2 8.7 11.6			
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Max. Total Harmonic Distortion	<3%			
Maximum output overcurrent protection(A)	22.1 22.1 22.1 38.4			
Efficiency				
Max. Efficiency	98.2%	98.2%	98.2%	98.2%
European Efficiency	97.6%	97.6%	97.6%	97.6%
Protection				
PV Insulation Resistance Detection	tance Integrated			
Residual Current Monitoring	Integrated			
PV Reverse Polarity Protection	Integrated			
Anti-islanding Protection	Integrated			
AC Overcurrent Protection	Integrated			
AC Short Circuit Protection	Integrated			
AC Overvoltage Protection	Integrated			
DC Switch		Integ	grated	
DC Surge Protection		Тур	be III	
AC Surge Protection		Тур	oe III	
AFCI		Opt	ional	
General Data				
Operating Temperature Range -30~+ (°C)		-30~+60 (60 °C for outdoor unconditioned with solar effects.)		
Relative Humidity	dity 0~100%			
Max. Operating Altitude (m)*3		≤4	.000	
Cooling Method	Natural Convection Smart Fan Cooling			
Display	LCD, LED(Optional), WLAN+APP			

Communication	RS485, WiFi or LAN(Optional)				
Communication Protocol	Modbus-RTU (SunSpec Complia	int)			
Weight (Kg)	15	16			
Dimension (W×H×Dmm)	354 × 433 × 147	354 × 433 × 155			
Noise Emission (dB)	<34	<50			
Тороlоду	Non-isolated				
Night Power Consumption (W)	<1				
Ingress Protection Rating	IP65				
Anti-corrosion Class	C4	C4			
DC Connector	MC4(4~6mm²)				
AC Connector	Plug and play connector				
Environmental Category	4K4H				
Pollution Degree	III				
Overvoltage Category	DC II / AC III				
Protective class	Ι				
The Decisive Voltage Class (DVC)	PV:C AC:C Com:A				
Active Anti-islanding Method	AFDPF + AQDPF *4				
Country of Manufacture	China				

Technical Data	GW10KT-DT	GW12KT-DT	GW15KT-DT	GW17KT-DT	
Input					
Max.Input Power (W)	15000	18000	22500	25500	
Max.Input Voltage(V)	1000	1000	1000	1100	
MPPT Operating Voltage Range (V)	180~850	180~850	180~850	200~950	
MPPT Voltage Range at Nominal Power (V)	410~800	500~850	500~850	470~860	
Start-up Voltage (V)	160	160	160	180	
Nominal Input Voltage (V)	620	620	620	620	
Max. Input Current per MPPT (A)	12.5	25/12.5	25/12.5	25	
Max. Short Circuit Current per MPPT (A)	15.6	31.2/15.6	31.2/15.6	31.2	
Max.Backfeed Current to The Array(A)	0	0	0	0	
Number of MPP trackers	2	2	2	2	
Number of Strings per MPPT	1	2/1	2/1	2	
Output					
Nominal Output Power (W)	10000	12000	15000	17000	
Nominal Output Apparent Power (VA)	10000	12000	15000	17000	
Max. AC Active Power (W)*1	11000	13200	16500	18700	
Max. AC Apparent Power (VA) *2	11000	14000	16500	19000	
Nominal Power at 40°C(W)	10000	12000	15000	17000	
Max Power at 40°C (including AC overload)(W)	10000	12000	15000	17000	
Nominal Output Voltage (V)	400, 3L/N/PE				
Output Voltage Range (V)	180~270(According to local standard)				
Nominal AC Grid Frequency (Hz)	50/60	50/60	50/60	50/60	
AC Grid Frequency Range (Hz)	45~55 / 55~65	45~55 / 55~65	45~55 / 55~65	45~55 / 55~65	
Max. Output Current (A)	16.0	20.3	24.0	28.8	

Max. Output Fault Current (Peak and Duration) (A)(at 5ms)	38	61	61	71	
Inrush Current (Peak and Duration) (A)(at 50µ s)	30	30	30	30	
Nominal Output Current (A)	14.5	17.3	21.7	24.5	
Output Power Factor	~1 (Adju	ıstable from 0.	8 leading to 0.8	8 lagging)	
Max. Total Harmonic Distortion		<	3%		
Maximum Output Overcurrent Protection (A)	38.4	61.4	61.4	71.2	
Efficiency					
Max. Efficiency	98.3%	98.3%	98.3%	98.4%	
European Efficiency	97.7%	97.7%	97.7%	97.7%	
Protection					
PV Reverse Polarity Protection		Integ	grated		
Residual Current Monitoring Unit		Integ	grated		
Anti-islanding Protection		Integ	grated		
AC Overcurrent Protection	Integrated				
AC Short Circuit Protection	Integrated				
AC Overvoltage Protection	Integrated				
DC Switch		Integ	grated		
DC Surge Protection	Type III Type III(II Optio				
AC Surge Protection		Тур	oe III		
AFCI		Opt	ional		
General Data					
Operating Temperature Range (°C)	-30~60 (60 °C for outdoor unconditioned with solar effects.)				
Relative Humidity	0~100%				
Max. Operating Altitude (m)*3		≤4	.000		
Cooling Method		Smart Fa	an Cooling		
Display		LCD, LED(Optic	onal), WLAN+AF	P	
Communication	RS485, WiFi or LAN(Optional)				

Communication Protocol	Modbus-RTU (SunSpec Compliant)				
Weight (Kg)	16	18	18	25	
Dimension (W×H×Dmm)		354 × 433 × 155	5	415 × 511 × 175	
Noise Emission (dB)			50		
Тороlоду		Non-i	solated		
Night Power Consumption (W)			<1		
Ingress Protection Rating		IF	°65		
Anti-corrosion Class	C4				
DC Connector	MC4(4~6mm²)				
AC Connector	Plug and play connector AC Connect			AC Connector	
Environmental Category	4К4Н				
Pollution Degree	III				
Overvoltage Category	DC II / AC III				
Protective class	Class I				
The Decisive Voltage Class (DVC)	PV:C AC:C Com:A				
Active Anti-islanding Method	AFDPF + AQDPF *4				
Country of Manufacture		Cł	nina		

Technical Data	GW20KT-DT	GW25KT-DT					
Input	Input						
Max.Input Power (W)	30000	37500					
Max.Input Voltage(V)	1100	1100					
MPPT Operating Voltage Range (V)	200~950	200~950					
MPPT Voltage Range at Nominal Power (V)	470~860	510~860					
Start-up Voltage (V)	180	180					
Nominal Input Voltage (V)	620	620					
Max. Input Current per MPPT (A)	25	37.5/25					
Max. Short Circuit Current per MPPT (A)	31.2	46.8/31.2					
Max.Backfeed Current to The Array(A)	0	0					
Number of MPP trackers	2	2					
Number of Strings per MPPT	2	3/2					
Output							
Nominal Output Power (W)	20000	25000					
Nominal Output Apparent Power (VA)	20000	25000					
Max. AC Active Power (W)*1	22000	27500					
Max. AC Apparent Power (VA) *2	22000	27500					
Nominal Power at 40°C(W)	20000	25000					
Max Power at 40°C (including AC overload)(W)	20000	25000					
Nominal Output Voltage (V)	400, 3L/N/PE	400, 3L/N/PE					
Output Voltage Range (V)	180~270(According	g to local standard)					
Nominal AC Grid Frequency (Hz)	50/60	50/60					
AC Grid Frequency Range (Hz)	45~55 / 55~65	45~55 / 55~65					
Max. Output Current (A)	31.9	40.8					
Max. Output Fault Current (Peak and Duration) (A)(at 5ms)	71	87					
Inrush Current (Peak and Duration) (A)(at 50µ s)	50	50					
Nominal Output Current (A)	28.9	36.1					

Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Max. Total Harmonic Distortion	<	3%		
Maximum output overcurrent protection(A)	71.2 87			
Efficiency				
Max. Efficiency	98.4%	98.4%		
European Efficiency	97.7%	97.7%		
Protection				
PV Insulation Resistance Detection	Integ	rated		
Residual Current Monitoring	Integ	rated		
PV Reverse Polarity Protection	Integ	rated		
Anti-islanding Protection	Integ	rated		
AC Overcurrent Protection	Integ	rated		
AC Short Circuit Protection	Integrated			
AC Overvoltage Protection	Integrated			
DC Switch	Integrated			
DC Surge Protection	Type III(Type II Optional)			
AC Surge Protection	Type III			
AFCI	Optional			
General Data				
Operating Temperature Range (°C)	-30~60 (60 °C for outdoor effe	unconditioned with solar ects.)		
Relative Humidity	0~1	00%		
Max. Operating Altitude (m)*3	≤ 4	000		
Cooling Method	Smart Fa	n Cooling		
Display	LCD, LED(Optional), WLAN+APP			
Communication	RS485, WiFi or LAN(Optional)			
Communication Protocol	Modbus-RTU (SunSpec Compliant)			
Weight (Kg)	2	5		
Dimension (W×H×Dmm)	415×5	11×175		
Noise Emission (dB)	5	0		
Тороlоду	Non-isolated			

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Night Power Consumption (W)	<1
Ingress Protection Rating	IP65
Anti-corrosion Class	C4
DC Connector	MC4(4~6mm²)
AC Connector	AC Connector
Environmental Category	4K4H
Pollution Degree	III
Overvoltage Category	DC II / AC III
Protective class	Class I
The Decisive Voltage Class (DVC)	PV:C AC:C Com:A
Active Anti-islanding Method	AFDPF + AQDPF *4
Country of Manufacture	China

*1: For Belgium Max. AC Active Power (W): GW4K-DT is 4000, GW5K-DT is 5000, GW6K-DT is 6000,GW8K-DT is 8000, GW10KT-DT is 10000,GW12KT-DT is 12000, GW15KT-DT is 15000,GW17KT-DT is 17000, GW20KT-DT is 20000, GW25KT-DT is 25000,GW4000-SDT-20 is 4000,GW5000-SDT-20 is 5000,GW6000-SDT-20 is 6000,GW8000-SDT-20 is 8000, GW10K-SDT-20 is 10000, GW12K-SDT-20 is 12000,GW12KLV-SDT-20 is 12000, GW15K-SDT-20 is 15000, GW17K-SDT-20 is 17000, GW20K-SDT-20 is 20000.

*2: For Belgium Max. Output Apparent Power (VA): GW4K-DT is 4000, GW5K-DT is 5000, GW6K-DT is 6000,GW8K-DT is 8000, GW10KT-DT is 10000,GW12KT-DT is 12000, GW15KT-DT is 15000,GW17KT-DT is 17000, GW20KT-DT is 20000, GW25KT-DT is 25000,GW4000-SDT-20 is 4000,GW5000-SDT-20 is 5000,GW6000-SDT-20 is 6000,GW8000-SDT-20 is 8000, GW10K-SDT-20 is 10000, GW12K-SDT-20 is 12000,GW12KLV-SDT-20 is 12000, GW15K-SDT-20 is 15000, GW17K-SDT-20 is 17000, GW20K-SDT-20 is 20000.

*3: For Australia Max. Operating Altitude (m) is 3000;

*4: AFDPF: Active Frequency Drift with Positive Feedback, AQDPF: Active Q Drift with Positive Feedback.

Technical Data	GW8KAU-DT	GW10KAU- DT	GW15KAU- DT	GW20KAU-DT
Input				
Max. Input Power (W)	12000	15000	22500	30000
Max. Input Voltage (V)	1100	1100	1100	1100
MPPT Operating Voltage Range (V)	140~950	140~950	140~950	140~950
MPPT Voltage Range at Nominal Power (V)	180~850	180~850	270~850	360~850
Start-up Voltage (V)	180	180	180	180
Nominal Input Voltage (V)	620	620	620	620
Max. Input Current per MPPT (A)	30	30	30	30
Max. Short Circuit Current per MPPT (A)	37.5	37.5	37.5	37.5
Max. Backfeed Current to The Array (A)	0	0	0	0
Number of MPP Trackers	2	2	2	2
Number of Strings per MPPT	2	2	2	2
Output				
Nominal Output Power (W)	8000	10000	15000	20000
Nominal Output Apparent Power (VA)	8000	10000	15000	20000
Max. AC Active Power (W)*1	8800	11000	16500	22000
Max. AC Apparent Power (VA)*2	8800	11000	16500	22000
Nominal Power at 40°C (W)	8000	10000	15000	20000
Max Power at 40°C (Including AC Overload) (W)	8000	10000	15000	20000
Nominal Output Voltage (V)	400, 3L/N/PE	400, 3L/N/ PE	400, 3L/N/ PE	400, 3L/N/PE
Output Voltage Range (V)	180)~260(Accordin	g to local stand	dard)
Nominal AC Grid Frequency (Hz)	50	50	50	50
AC Grid Frequency Range (Hz)	47~52	47~52	47~52	47~52
Max. Output Current (A)	12.8	16	24	31.9

Max. Output Fault Current (Peak and Duration) (A)(at 5ms)	118	118	118	118	
Inrush Current (Peak and Duration) (A)(at 50µ s)	65	65	65	65	
Nominal Output Current (A)	11.6	14.5	21.7	28.9	
Power Factor	~1 (Adju	stable from 0.	8 leading to 0.8	3 lagging)	
Max. Total Harmonic Distortion		<	3%		
Maximum Output Overcurrent Protection (A)	38.4	38.4	88.9	88.9	
Efficiency					
Max. Efficiency	98.4%	98.4%	98.4%	98.4%	
European Efficiency	97.5%	97.5%	97.5%	97.5%	
Protection					
PV Insulation Resistance Detection		Integ	grated		
Residual Current Monitoring		Integ	grated		
PV Reverse Polarity Protection		Integ	grated		
Anti-islanding Protection	Integrated				
AC Overcurrent Protection	Integrated				
AC Short Circuit Protection	Integrated				
AC Overvoltage Protection	Integrated				
DC Switch	Integrated				
DC Surge Protection	Туре II				
AC Surge Protection	Туре III				
AFCI	Optional				
Emergency Power Off	Optional				
Remote Shutdown	Optional				
General Data	0				
Operating Temperature Range (°C)	-30~+60 (60 °C for outdoor unconditioned with solar effects.)				
Relative Humidity		0~1	00%		
Max. Operating Altitude (m)	3000				

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Cooling Method	Natural Co	onvection	Smart Fan Cooling		
User Interface		LCD, LED(Optio	nal), WLAN+AP	P	
Communication		RS485, WiFi or	LAN(Optional)	
Communication Protocols	М	odbus-RTU (Su	nSpec Complia	int)	
Weight (kg)	20.5	26.0			
Dimension (W×H×D mm)		415 × 5	11 × 175		
Noise Emission (dB)	<2	25	<	50	
Тороlоду		Non-i	solated		
Self-consumption at Night (W)	<1				
Ingress Protection Rating	IP65				
Anti-corrosion Class	C4				
DC Connector	MC4 (4~6mm²)				
AC Connector	AC Connector				
Environmental Category	4K4H				
Pollution Degree]	III		
Overvoltage Category		DC II	/ AC III		
Protective Class	Class I				
	PV:C				
The Decisive Voltage Class (DVC)	AC:C Com:A				
Active Anti-islanding Method	AFDPF + AQDPF *3				
Country of Manufacture	China				

*1: For Belgium Max. AC Active Power (W): GW4K-DT is 4000, GW5K-DT is 5000, GW6K-DT is 6000,GW8K-DT is 8000, GW10KT-DT is 10000,GW12KT-DT is 12000, GW15KT-DT is 15000,GW17KT-DT is 17000, GW20KT-DT is 20000, GW25KT-DT is 25000,GW4000-SDT-20 is 4000,GW5000-SDT-20 is 5000,GW6000-SDT-20 is 6000,GW8000-SDT-20 is 8000, GW10K-SDT-20 is 10000, GW12K-SDT-20 is 12000,GW12KLV-SDT-20 is 12000, GW15K-SDT-20 is 15000, GW17K-SDT-20 is 17000, GW20K-SDT-20 is 20000.

*2: For Belgium Max. Output Apparent Power (VA): GW4K-DT is 4000, GW5K-DT is 5000, GW6K-DT is 6000,GW8K-DT is 8000, GW10KT-DT is 10000,GW12KT-DT is 12000, GW15KT-DT is 15000,GW17KT-DT is 17000, GW20KT-DT is 20000, GW25KT-DT is 25000,GW4000-SDT-20 is 4000,GW5000-SDT-20 is 5000,GW6000-SDT-20 is 6000,GW8000-SDT-20 is 8000, GW10K-SDT-20 is 10000, GW12K-SDT-20 is 12000,GW12KLV-SDT-20 is 12000, GW15K-SDT-20 is 15000, GW17K-SDT-20 is 17000, GW20K-SDT-20 is 20000.

*3: AFDPF: Active Frequency Drift with Positive Feedback, AQDPF: Active Q Drift with Positive Feedback.

Technical Data	GW8000- SDT-20	GW10K- SDT-20	GW12K- SDT-20	GW12KLV-SDT-20	
Input					
Max.Input Power (W)	16000	20000	24000	19200	
Max.Input Voltage(V)	1100	1100	1100	800	
MPPT Operating Voltage Range (V)	140~950	140~950	140~950	140-650	
MPPT Voltage Range at Nominal Power (V)	290~850	360~850	220~850	360-650	
Start-up Voltage (V)	180	180	180	180	
Nominal Input Voltage (V)	620	620	620	370	
Max. Input Current per MPPT (A)	15	15	30	30	
Max. Short Circuit Current per MPPT (A)	18.7	18.7	37.5	37.5	
Max.Backfeed Current to The Array(A)	0	0	0	0	
Number of MPP trackers	2	2	2	2	
Number of Strings per MPPT	1	1	2	2	
Output					
Nominal Output Power (W)	8000	10000	12000	12000	
Nominal Output Apparent Power (VA)	8000	10000	12000	12000	
Max. AC Active Power (W)*1	8800	11000	13200	12000	
Max. AC Apparent Power (VA) *2	8800	11000	13200	12000	
Nominal Power at 40°C(W)	8000	10000	12000	12000	
Max Power at 40°C (including AC overload)(W)	8800	11000	13200	12000	
Nominal Output Voltage (V)	380	/400/415, 3/N	/PE	220/127, 3L/N/PE	
Output Voltage Range (V)	180~270(According to local standard)			170-240(According to local standard)	
Nominal AC Grid Frequency (Hz)	50/60	50/60	50/60	60	
AC Grid Frequency Range (Hz)	45~55 / 55~65	45~55 / 55~65	45~55 / 55~65	57.5~62	

Max. Output Current (A)	12.8	16.0	19.1	31.9	
Max. Output Fault Current (Peak and Duration) (A)(at 5ms)	38	38	89	89	
Inrush Current (Peak and Duration) (A)(at 50µ s)	30	30	30	50	
Nominal Output Current (A)	11.6	14.5	17.4	28.9	
Output Power Factor	~1 (Ac	djustable from	n 0.8 leading	to 0.8 lagging)	
Max. Total Harmonic Distortion			<3%		
Maximum Output Overcurrent Protection (A)	38.4	38.4	88.9	88.9	
Efficiency					
Max. Efficiency	98.3%	98.3%	98.4%	96.9%	
European Efficiency	97.6%	97.6%	97.8%	96.4%	
Protection					
PV Insulation Resistance Detection		Ir	ntegrated		
Residual Current Monitoring		Ir	ntegrated		
PV Reverse Polarity Protection		Ir	ntegrated		
Anti-islanding Protection		Ir	ntegrated		
AC Overcurrent Protection		Ir	ntegrated		
AC Short Circuit Protection		Ir	ntegrated		
AC Overvoltage Protection		Ir	ntegrated		
DC Switch		Ir	ntegrated		
DC Surge Protection			Type II		
AC Surge Protection			Type III		
AFCI			Optional		
Emergency Power Off	Optional				
Remote Shutdown	Optional				
General Data					
Operating Temperature Range (°C)	-30~+60 (60 °C for outdoor unconditioned with solar effects.)				
Relative Humidity	0~100%				

Max. Operating Altitude (m)*3	4000			
Cooling Method	Natural ConVection Smart		rt Fan Cooling	
Display	LED, LCD(Optional, WLAN+APP			
Communication	RS485, WiFi or LAN or 4G(Optional)			
Weight (Kg)	20.5	20.5	23.5	26
Dimension (W×H×Dmm)	415 × 511 × 175 415 × 511 × 198		5 × 511 × 198	
Noise Emission (dB)	<25 <45		<45	
Тороlоду	Non-isolated			
Night Power Consumption (W)	<1			
Ingress Protection Rating	IP65			
Anti-corrosion Class	C4			
DC Connector	MC4 (4~6mm²)			
AC Connector	OT Terminal			
Environmental Category	4К4Н			
Pollution Degree	III			
Overvoltage Category	DC II / AC III			
Protective class	Class I			
The Decisive Voltage Class (DVC)	PV: C AC: C Com: A			
Active Anti-islanding Method	AFDPF + AQDPF *4			
Country of Manufacture	China			

Technical Data	GW15K-SDT-20	GW17K-SDT-20	GW20K-SDT-20
Input			
Max.Input Power (W)	30000	34000	40000
Max.Input Voltage(V)	1100	1100	1100
MPPT Operating Voltage Range (V)	140~950	140~950	140~950
MPPT Voltage Range at Nominal Power (V)	275~850	300~850	360~850
Start-up Voltage (V)	180	180	180
Nominal Input Voltage (V)	620	620	620
Max. Input Current per MPPT (A)	30	30	30
Max. Short Circuit Current per MPPT (A)	37.5	37.5	37.5
Max.Backfeed Current to The Array(A)	0	0	0
Number of MPP trackers	2	2	2
Number of Strings per MPPT	2	2	2
Output			
Nominal Output Power (W)	15000	17000	20000
Nominal Output Apparent Power (VA)	15000	17000	20000
Max. AC Active Power (W)*1	16500	18700	22000
Max. AC Apparent Power (VA) *2	16500	18700	22000
Nominal Power at 40°C(W)	15000	17000	20000
Max Power at 40°C (including AC overload)(W)	16500	18700	22000
Nominal Output Voltage (V)	380/400/415, 3/N/PE		
Output Voltage Range (V)	180~270(According to local standard)		
Nominal AC Grid Frequency (Hz)	50/60	50/60	50/60
AC Grid Frequency Range (Hz)	45~55 / 55~65	45~55 / 55~65	45~55 / 55~65
Max. Output Current (A)	24.0	27.1	32.0
Max. Output Fault Current (Peak and Duration) (A)(at 5ms)	89	89	89
Inrush Current (Peak and Duration) (A) (at 50µ s)	50	50	50
Nominal Output Current (A)	21.7	24.6	29.0

Output Power Factor	~1 (Adjustable	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Max. Total Harmonic Distortion	<3%				
Maximum Output Overcurrent Protection (A)	88.9				
Efficiency					
Max. Efficiency	98.4%	98.4%	98.4%		
European Efficiency	97.8%	97.8%	97.8%		
Protection					
PV Insulation Resistance Detection		Integrated			
Residual Current Monitoring	Integrated				
PV Reverse Polarity Protection		Integrated			
Anti-islanding Protection	Integrated				
AC Overcurrent Protection	Integrated				
AC Short Circuit Protection	Integrated				
AC Overvoltage Protection	Integrated				
DC Switch	Integrated				
DC Surge Protection	Туре II				
AC Surge Protection	Туре III				
AFCI	Optional				
Emergency Power Off	Optional				
Remote Shutdown	Optional				
General Data					
Operating Temperature Range (°C)	-30~+60 (60 °C for outdoor unconditioned with solar effects.)				
Relative Humidity	0~100%				
Max. Operating Altitude (m)* ³	4000				
Cooling Method	Smart Fan Cooling				
Display	LED, LCD(Optional, WLAN+APP)				
Communication	RS485, V	RS485, WiFi or LAN or 4G(Optional)			
Weight (Kg)		26			
Dimension (W×H×Dmm)	415 × 511 × 198				
Noise Emission (dB)		<45			

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Тороlоду	Non-isolated
Night Power Consumption (W)	<1
Ingress Protection Rating	IP65
Anti-corrosion Class	C4
DC Connector	MC4 (4~6mm²)
AC Connector	OT Terminal
Environmental Category	4К4Н
Pollution Degree	III
Overvoltage Category	DC II / AC III
Protective class	Class I
The Decisive Voltage Class (DVC)	PV: C AC: C Com: A
Active Anti-islanding Method	AFDPF + AQDPF *4
Country of Manufacture	China

*1: For Belgium Max. AC Active Power (W): GW4K-DT is 4000, GW5K-DT is 5000, GW6K-DT is 6000,GW8K-DT is 8000, GW10KT-DT is 10000,GW12KT-DT is 12000, GW15KT-DT is 15000,GW17KT-DT is 17000, GW20KT-DT is 20000, GW25KT-DT is 25000,GW4000-SDT-20 is 4000,GW5000-SDT-20 is 5000,GW6000-SDT-20 is 6000,GW8000-SDT-20 is 8000, GW10K-SDT-20 is 10000, GW12K-SDT-20 is 12000,GW12KLV-SDT-20 is 12000, GW15K-SDT-20 is 15000, GW17K-SDT-20 is 17000, GW20K-SDT-20 is 20000.

*2: For Belgium Max. Output Apparent Power (VA): GW4K-DT is 4000, GW5K-DT is 5000, GW6K-DT is 6000,GW8K-DT is 8000, GW10KT-DT is 10000,GW12KT-DT is 12000, GW15KT-DT is 15000,GW17KT-DT is 17000, GW20KT-DT is 20000, GW25KT-DT is 25000,GW4000-SDT-20 is 4000,GW5000-SDT-20 is 5000,GW6000-SDT-20 is 6000,GW8000-SDT-20 is 8000, GW10K-SDT-20 is 10000, GW12K-SDT-20 is 12000,GW12KLV-SDT-20 is 12000, GW15K-SDT-20 is 15000, GW17K-SDT-20 is 17000, GW20K-SDT-20 is 20000.

*3: For Australia Max. Operating Altitude (m) is 3000;

*4: AFDPF: Active Frequency Drift with Positive Feedback, AQDPF: Active Q Drift with Positive Feedback.

Technical Data	GW4000-SDT-20	GW5000-SDT-20	GW6000-SDT-20		
Input	Input				
Max.Input Power (W)	6000	7500	9000		
Max.Input Voltage(V)	1000	1000	1000		
MPPT Operating Voltage Range (V)	180~850	180~850	180~850		
MPPT Voltage Range at Nominal Power (V)	410~800	410~800	410~800		
Start-up Voltage (V)		180			
Nominal Input Voltage (V)	620	620	620		
Max. Input Current per MPPT (A)	16				
Max. Short Circuit Current per MPPT (A)	20				
Max.Backfeed Current to The Array(A)	0	0	0		
Number of MPP trackers	2	2	2		
Number of Strings per MPPT	1	1	1		
Output					
Nominal Output Power (W)	4000	5000	6000		
Nominal Output Apparent Power (VA)	4000	5000	6000		
Max. AC Active Power (W)*1	4400	5500	6600		
Max. AC Apparent Power (VA) $*^2$	4400	5500	6600		
Nominal Power at 40°C(W)	4,000	5,000	6,000		
Max Power at 40°C (including AC overload)(W)	4,000	5,000	6,000		
Nominal Output Voltage (V)	400, 3L/N/PE				
Output Voltage Range (V)	180~270				
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60		
AC Grid Frequency Range (Hz)	45-55 / 55-65				
Max. Output Current (A)	6.4	8.0	9.6		
Max. Output Fault Current (Peak and Duration) (A)(at 5ms)	22	22	22		
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	-		0	
Inrush Current (Peak and Duration) (A)(at 50µ s)	10	10	10	
Nominal Output Current (A)	5.8	7.2	8.7	
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Max. Total Harmonic Distortion	<3%			
Maximum Output Overcurrent Protection (A)	22	22	22	
Efficiency				
Max. Efficiency	98.2%	98.2%	98.2%	
European Efficiency	97.6%	97.6%	97.6%	
Protection				
PV Insulation Resistance Detection	Integrated			
Residual Current Monitoring	Integrated			
PV Reverse Polarity Protection	Integrated			
Anti-islanding Protection	Integrated			
AC Overcurrent Protection	Integrated			
AC Short Circuit Protection	Integrated			
AC Overvoltage Protection	Integrated			
DC Switch	Integrated			
DC Surge Protection	Type III (Type II Optional)			
AC Surge Protection	Туре III			
AFCI	Optional			
Emergency Power Off	Optional			
Remote Shutdown	Optional			
General Data				
Operating Temperature Range (°C)	-30~+60 (60 °C for outdoor unconditioned with solar effects.)			
Relative Humidity	0~100%			
Max. Operating Altitude (m)*3	≤4000			
Cooling Method	Natural Convection			
Display	LED, LCD(Optional, WLAN+APP			
Communication	RS485, WiFi or LAN or 4G(Optional)			

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Weight (Kg)	15	
Dimension (W×H×Dmm)	354 × 433 × 147	
Noise Emission (dB)	<34	
Тороlоду	Non-isolated	
Night Power Consumption (W)	<1	
Ingress Protection Rating	IP65	
Anti-corrosion Class	C4	
DC Connector	MC4 (4~6mm²)	
AC Connector	Plug and play connector	
Environmental Category	4K4H	
Pollution Degree	III	
Overvoltage Category	DC II / AC III	
Protective class	Class I	
The Decisive Voltage Class (DVC)	PV: C AC: C Com: A	
Active Anti-islanding Method	AFDPF + AQDPF *4	
Country of Manufacture	China	

*1: For Belgium Max. AC Active Power (W): GW4K-DT is 4000, GW5K-DT is 5000, GW6K-DT is 6000,GW8K-DT is 8000, GW10KT-DT is 10000,GW12KT-DT is 12000, GW15KT-DT is 15000,GW17KT-DT is 17000, GW20KT-DT is 20000, GW25KT-DT is 25000,GW4000-SDT-20 is 4000,GW5000-SDT-20 is 5000,GW6000-SDT-20 is 6000,GW8000-SDT-20 is 8000, GW10K-SDT-20 is 10000, GW12K-SDT-20 is 12000,GW12KLV-SDT-20 is 12000, GW15K-SDT-20 is 15000, GW17K-SDT-20 is 17000, GW20K-SDT-20 is 20000.

*2: For Belgium Max. Output Apparent Power (VA): GW4K-DT is 4000, GW5K-DT is 5000, GW6K-DT is 6000,GW8K-DT is 8000, GW10KT-DT is 10000,GW12KT-DT is 12000, GW15KT-DT is 15000,GW17KT-DT is 17000, GW20KT-DT is 20000, GW25KT-DT is 25000,GW4000-SDT-20 is 4000,GW5000-SDT-20 is 5000,GW6000-SDT-20 is 6000,GW8000-SDT-20 is 8000, GW10K-SDT-20 is 10000, GW12K-SDT-20 is 12000,GW12KLV-SDT-20 is 12000, GW15K-SDT-20 is 15000, GW17K-SDT-20 is 17000, GW20K-SDT-20 is 20000.

*3: For Australia Max. Operating Altitude (m) is 3000;

*4: AFDPF: Active Frequency Drift with Positive Feedback, AQDPF: Active Q Drift with Positive Feedback.



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