



# COMMERCIAL, INDUSTRIAL & UTILITY

**SOLAR SYSTEM SOLUTIONS** 

www.goodwe.com









50% DC Input **Oversizing Ratio** 

15% AC Output **Overloading Ratio** 

Max Efficiency 99%



**Arc-Fault Circuit-Interrupter** 



**Second Generation** of Power Line Communication



String Level Monitoring



**SDT G2 Series** 

2-MPPT, Three-Phase

**SMT Series** 

3-MPPT, Three-Phase

**MT Series** 

4-MPPT, Three-Phase

**HT Series** 

12-MPPT, Three-Phase

# **100kWp** Solar Power Plant Solution

### **Project Information**

Project Location: Munich / GERMANY PV Panel: 350 Wp Monocrystalline

Inverter: GW30K-MT GoodWe three phase commercial inverter Installed DC Capacity: 288 pcs x 0.35 kWp = 100,8 kWp Installed Rated AC Capacity: 3 pcs x 30 kW = 90 kW

DC / AC Ratio: 1.12

### **Project Components**

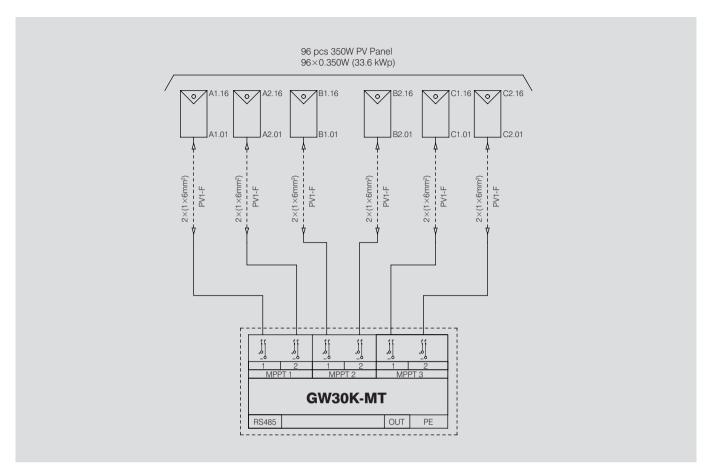
No.	Material	Description	Quantity
1	PV Panel	350 Wp Monocrystalline	288
2	Inverter	GoodWe GW30K-MT	3
3	Construction Material	Rooftop Supporting System, Preferably Aluminum	1 Package
4	DC Cable	1x6 mm²	1.250 mt.
5	AC Cable	5x16 mm <sup>2</sup>	150 mt.
6	Comm. Cable	RS485	100 mt.
7	AC Board	3 Leakage Current Protection, 3 Sub Breaker, 1 SPD, 1 Main Switch	1
8	Datalogger	EzLogger Pro (with RS485 com. Method)	1

#### **PV Panel Main Features**

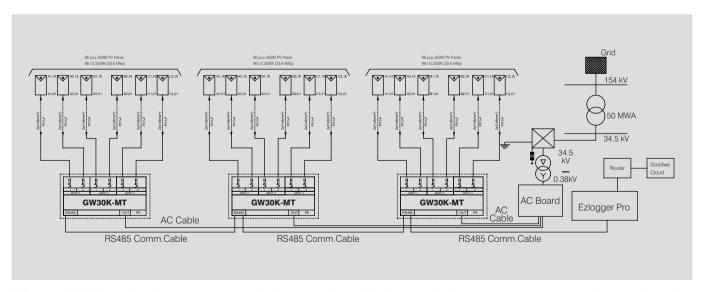
Maximum Power (Pmax)	350 Wp
Maximum Power Voltage (Vmp)	39.1 V
Maximum Power Current (Imp)	8.94 A
Open-circuit Voltage (Voc)	47.5 V
Size & Weight	1956×992×40 mm 26.5 kg

<sup>\*</sup> The GoodWe SMT series inverter features a 30-50% DC oversizing capability. In that project 12% DC oversizing applied considering the strong level of irradiation of Germany.

### **Cabling & Connections Diagram**



\* Connection diagram. Each string is connected with 16 PV Panels. The total capacity is 6 string x 16 = 96 pcs.



- \* The GoodWe Ezlogger Pro features 3 communication inputs per inverter. Each communication port can support up to 20 inverters. In total, 60 inverters can be connected. (The GoodWe monitoring box SCB1000 is also available).
- \* The Max. effective RS485 distance is 1000m for EzloggerPro.
- \* EzloggerPro is able to perform string level monitoring.

#### **PV System Efficiency Report**

#### **Grid-Connected System: Main Results** Project: 100kW\_Germany **Simulation Variant:** 100kW\_Germany **Main System Parameters** No 3D Scene Defined, No Shadings System Type PV Field Orientation Tilt 38° Azimuth 0° PV Modules Model JKM 350M-72-V Pnom 350 Wp No. of Modules 288 Pnom Total PV Array 101 kWp Model GW30K-MT Pnom 30.0 kW ac Inverter Inverter Pack No.of Units 3.0 Pnom Total 90.0 kW ac User's Needs Unlimited Load (Grid) **Main Simulation Results** System Production **Produced Energy** 124.9 MWh/year Specific Prod. 1239 kWh/kWp/year Performance Ratio PR 88.97% Normalized productions (per installed kWp): Nominal power 101 kWp Lc : Collection Loss (PV-array losses) 0.37 kWh/kWp/day Ls : System Loss (inverter, ...) 0.05 kWh/kWp/day Yf: Produced useful energy (inverter output) 3.39 kWh/kWp/day 6 5 Energy 4 3 2 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec **Performance Ratio PR** PR: Performance Ratio (Yf / Yr): 0.890 1.0 0.9 0.8 g 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.0 Jan Feb Oct Mar Apr May Aug Sep Nov Dec

<sup>\*</sup> This report illustrates how the DC oversizing of this installation contributes to increase the total production. If we had followed a 1:1 DC/AC ratio arrangement, the total production would have been 10% lower.

# **1MWp** Solar Power Plant Solution

### **Project Information**

Project Location: Munich / GERMANY PV Panel: 350 Wp Monocrystalline

Inverter: GW80K-MT GoodWe three phase commercial inverter Installed DC Capacity: 2880 pcs x 0.35 kWp = 1008 kWp Installed Rated AC Capacity: 12 pcs x 80 kW = 960 kW

DC / AC Ratio: 1.05

\* The GoodWe MT series inverter features a 30-50% DC oversizing capability. In that project 5% DC oversizing applied considering the strong level of irradiation of Germany.

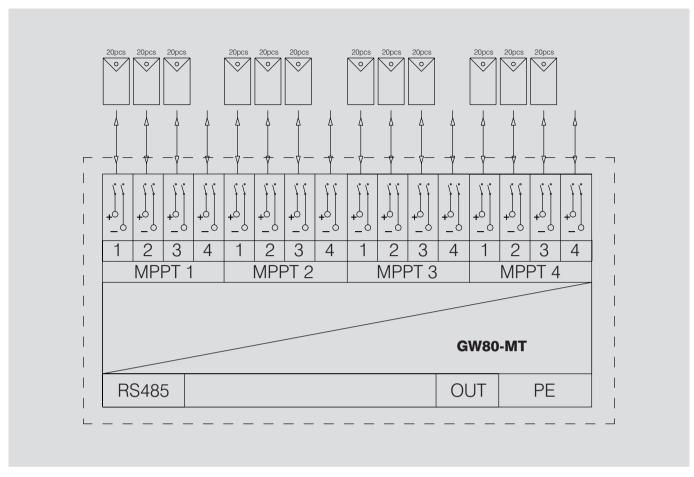
### **Project Components**

No.	Material	Description	Quantity
1	PV Panel	350 Wp Monocrystal	2880
2	Inverter	GoodWe GW80K-MT	12
3	Construction Material	Rooftop Supporting System, Preferably Aluminum	1 Package
4	DC Cable	1x6 mm <sup>2</sup>	13.000 mt.
5	AC Cable	5x35 mm <sup>2</sup>	3.000 mt.
6	Comm. Cable	RS485	200 mt.
7	AC Board	4 Leakage Current Protection, 4 Sub Breaker, 1 SPD, 1 Main Switch	3
8	HV Building	Transformer, AC Main Board, Protection Cells	1
9	Datalogger	EzLogger Pro (with RS485 com. Method)	1

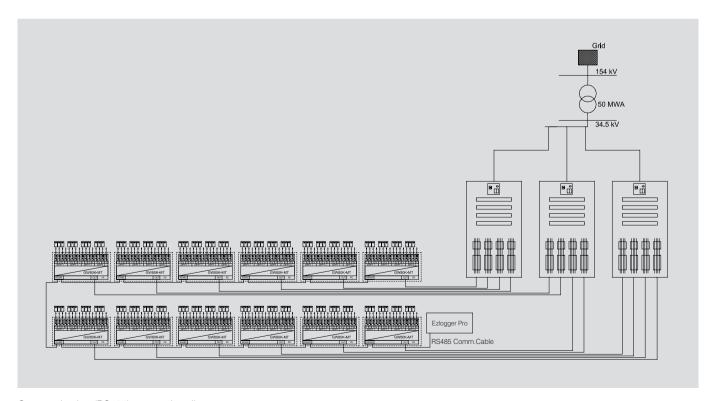
#### **PV Panel Main Features**

Maximum Power (Pmax)	350 Wp
Maximum Power Voltage (Vmp)	39.1 V
Maximum Power Current (Imp)	8.94 A
Open-circuit Voltage (Voc)	47.5 V
Size & Weight	1956×992×40 mm 26.5 kg

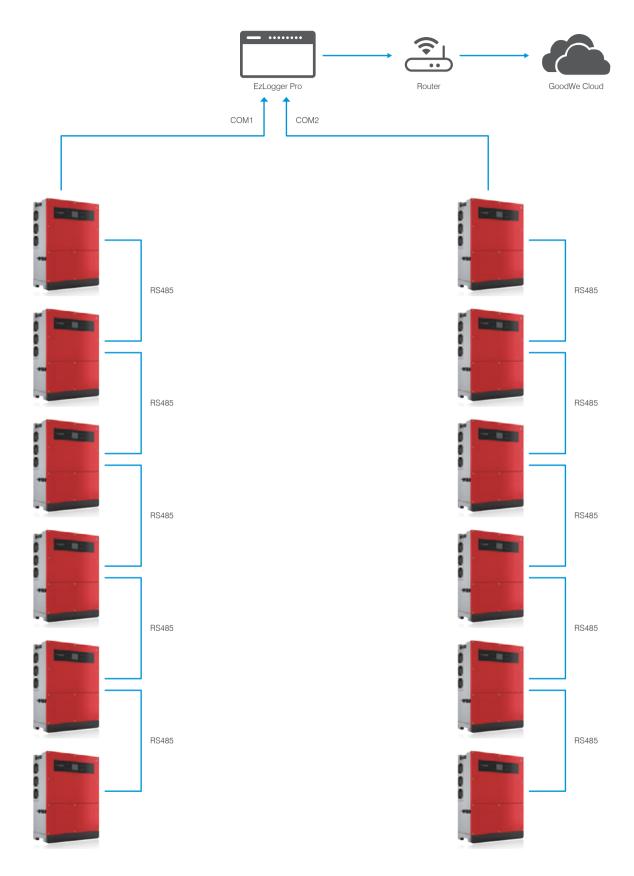
### **Cabling & Connections Diagram**



\* Connection diagram. Each string is connected with 20 PV Panels. Total project size: 12 string x 20 = 240 pcs. To reach a higher voltage, we left one DC input on each MPPT unused, instead, more PV panels are connected to the remaining 3 DC inputs.



Communication (RS485) connection diagram.



- \* The GoodWe Ezlogger Pro features 3 communication inputs per inverter. Each communication port can support up to 20 inverters, achieving a total capacity of 60 inverters that can be connected. (There is also another monitoring box which is called SCB1000).
- \* The Max. effective RS485 distance is 1000m for EzloggerPro.
- \* EzloggerPro can perform string level monitoring.

#### **PV System Efficiency Report**

#### **Grid-Connected System: Main Results** Project: 1MW\_Germany **Simulation Variant:** 1MW\_Germany **Main System Parameters** No 3D Scene Defined, No Shadings System Type PV Field Orientation Tilt 38° Azimuth 0° PV Modules Model JKM 350M-72-V Pnom 350 Wp No. of Modules 2880 Pnom Total 1008 kWp PV Array Model GW80K-MT Pnom 80.0 kW ac Inverter Inverter Pack No.of Units 12.0 Pnom Total 960 kW ac Unlimited Load (Grid) User's Needs **Main Simulation Results** 1250 MWh/year System Production **Produced Energy** Specific Prod. 1240 kWh/kWp/year Performance Ratio PR 89.07% Normalized productions (per installed kWp): Nominal power 1008 kWp Lc : Collection Loss (PV-array losses) 0.37 kWh/kWp/day Ls : System Loss (inverter, ...) 0.05 kWh/kWp/day 3.4 kWh/kWp/day Yf: Produced useful energy (inverter output) 6 5 4 3 0 Mar Apr May Jun Jul Aug Sep **Performance Ratio PR** PR: Performance Ratio (Yf / Yr): 0.891 1.0 0.9 0.8 g 0.7 0.6 0.5 0.4 0.3 0.2 0.1

May

Aug

Sep

Dec

Apr

Jan

0.0

<sup>\*</sup> This report shows the total energy produced less all cumulative losses. This project achieved 5% of DC oversizing.

<sup>\*</sup> The GW80K-MT can support 50% DC oversizing.

# **5MWp** Solar Power Plant Solution

### **Project Information**

Project Location: Munich / GERMANY

PV Panel: 430 Wp Bifacial

Inverter: GW100K-HT GoodWe three phase commercial inverter (400V Output)

Installed DC Capacity: 15.200 pcs x 0.43 kWp = 6536 kWp Installed Rated AC Capacity: 50 pcs x 100 kW = 5000 kW

DC / AC Ratio: 1.30

\* GoodWe HT series inverter has 30-50% DC oversize ability. In that project 30% DC oversize applied considering the strong level of irradiation of Germany.

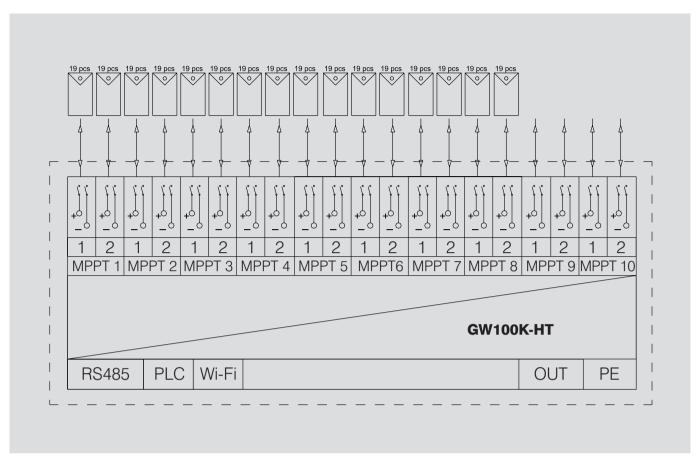
### **Project Components**

Material	Description	Quantity
PV Panel	430 Wp Monocrystalline	15.200
Inverter	GoodWe GW100K-HT	50
Construction Material	Rooftop Supporting System, preferably aluminum	1 Package
DC Cable	1x6 mm <sup>2</sup>	65.000 mt.
AC Cable	4x35 mm <sup>2</sup>	153.000 mt.
AC Board	5 leakage current protection, 5 Sub Breaker, 1 SPD, 1 Main switch	16
HV Building	Transformer, AC Main Board, Protection cells	1
	PV Panel Inverter Construction Material DC Cable AC Cable AC Board HV Building	PV Panel 430 Wp Monocrystalline  Inverter GoodWe GW100K-HT  Construction Material Rooftop Supporting System, preferably aluminum  DC Cable 1x6 mm²  AC Cable 4x35 mm²  AC Board 5 leakage current protection, 5 Sub Breaker, 1 SPD, 1 Main switch  HV Building Transformer, AC Main Board, Protection cells

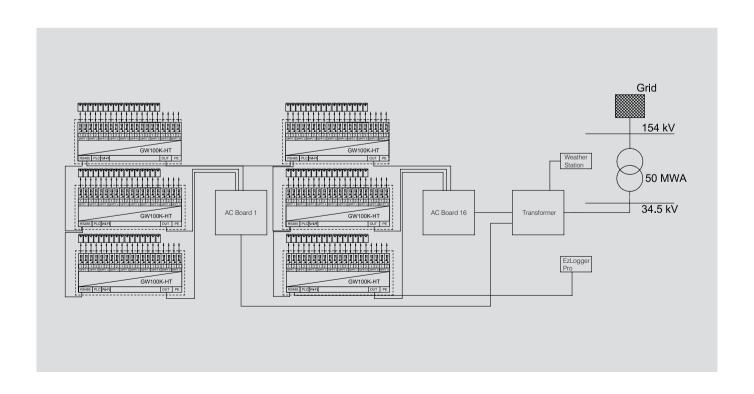
#### **PV Panel Main Features**

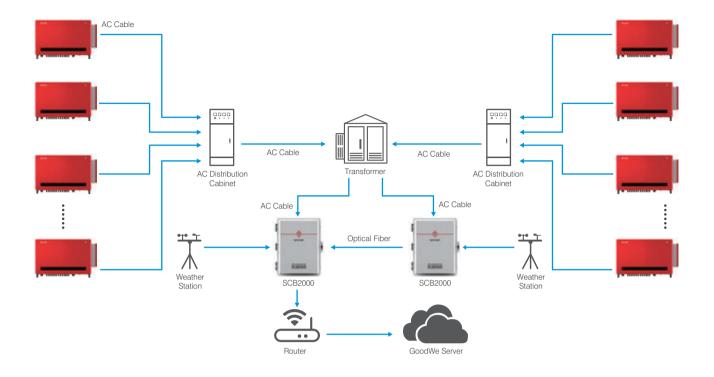
Maximum Power (Pmax)	430 Wp
Maximum Power Voltage (Vmp)	41.20 V
Maximum Power Current (Imp)	10.4 A
Open-circuit Voltage (Voc)	49.40 V
Size & Weight	2131×1052×35 mm 29.5 kg

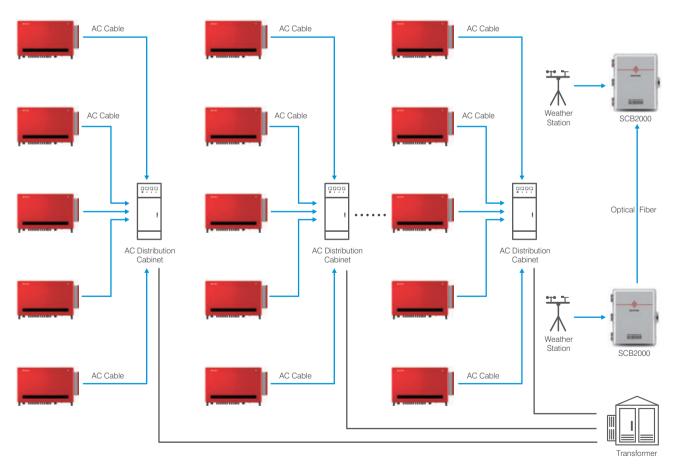
### **Cabling & Connections Diagram**



<sup>\*</sup> Illustration of connection diagram. To get higher yield we implied 19 pcs of PV Panels to 16 strings. There are 304 PV Panels installed in total per inverter, DC input power is 130.7 kWp. DC/AC ratio is 1.3.







<sup>\*</sup> There are Ezlogger Pro and PLC board located inside of SCB2000 box. This communication box can support up to 30 inverters. For using more than 30 inverters, we can connect all SCB2000 boxes with Optical Fiber.

#### **PV System Efficiency Report**

#### **Grid-Connected System: Main Results 5MW Project** Project: **Simulation Variant: New simulation variant Main System Parameters** No 3D Scene Defined, No Shadings System Type PV Field Orientation Tilt 37° Azimuth 0° PV Modules Model LR4-72 HBD 430 M Pnom 430 Wp No. of Modules 15200 Pnom Total 6536 kWp PV Array Model GW100K-HT Pnom 100 kW ac Inverter Inverter Pack No.of Units 50.0 Pnom Total 5000 kW ac User's Needs Unlimited Load (Grid) **Main Simulation Results** System Production **Produced Energy** 8216 MWh/year Specific Prod. 1257 kWh/kWp/year Performance Ratio PR 90.22 % Normalized productions (per installed kWp): Nominal power 6536 kWp Lc : Collection Loss (PV-array losses) 0.31 kWh/kWp/day Ls: System Loss (inverter, ...) 0.06 kWh/kWp/day 3.44 kWh/kWp/day Yf: Produced useful energy (inverter output) 6 5 Energy 4 3 0 Jun Jul Mar Apr May Aug Sep Nov **Performance Ratio PR** PR: Performance Ratio (Yf / Yr): 0.902 1.0 0.9 0.8 g 0.7 9.0 gat. 0.5 0.4 0.3 0.2 0.1 0.0 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

<sup>\*</sup> This report shows that bifacial PV Panels produce more energy under good irradiation, and has more PR (Performance Ratio) than traditional systems.

<sup>\*</sup> GW100K-HT can support 50% DC oversizing.

# **Smart Energy Management System**

The Smart Energy Management System (SEMS) of GoodWe is an open protocol monitoring platform. It is designed to help operators to monitor a diverse range of PV plants operating at different locations simultaneously. SEMS carries extensive data processing, including the production of customized charts. Its system of notifications and maintenance functions helps the operators of PV assets to manage the generation of energy efficiently and comfortably, contributing to higher system yields.



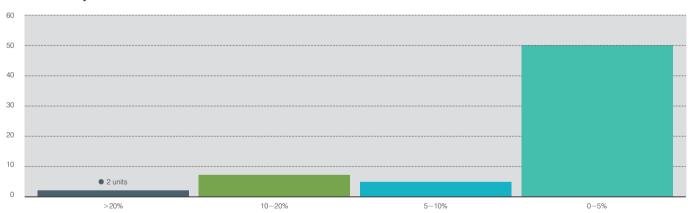
#### **String Level Monitoring**

10~20%

5~10%

>20%

#### **Deviation Analysis of Inverters**



The high deviation rate indicates problems of the PV system. SEMS is able to select inverters with high deviation rate. Then by diagnosing the current of each string, users can check the corresponding panels and related installation components to find the root cause of the deviation.

Inverter	Deviation Rate						
	(%)	String 1	String 2	String 3	String 4	String 5	String 6
1NB26	57.74	3618.12	3626.51	4049.023	3579.04	3678.52	3961.61
1NB52	57.75	3599.15	3596.02	3865.846	3528.8	3594.32	4124.26

0~5%



### **Carousel Display of All Power Plants**

Dynamic carousel display of all the plants under your account.



### **Smart Report Generation**

#### **Report Generation & Customized Data Analysis**

#### Precise and comprehensive detection & evaluation of plant data

The content and design of the reports can be adjusted to suit individual requirements. In addition to the standard report, a report generator is also available.



### **Multilingual System**

SEMS portal is a multilingual site. It offers as many as nine languages, including English, Germany, Dutch, Spanish, Portuguese, Czech, Turkish, Korean and Arabic. With the popularity of GoodWe inverters all around the world, more language versions of SEMS will be available.

### **Intelligent Warning and Troubleshooting**



#### **Lower O&M Cost:**

Full visibility of system performance & remote troubleshooting

# **Optical Fiber Ring Solution**

Maintaining a stable data transfer across long distances ranks high among the priorities. GoodWe has come up with a solution based on the integration of an optical fiber ring, in which the data transfer process and its speed remains undisrupted and reliable even when a communication node is broken. All these benefits make this an optimal solution for C&I scenarios.

#### **Advantages**

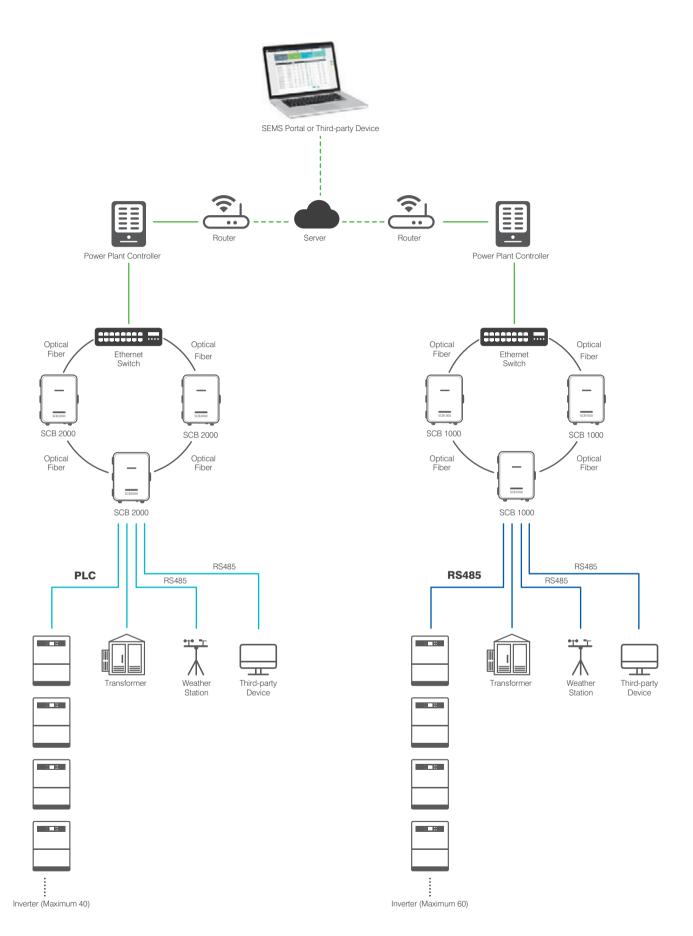
- Provides the most solid basis for a reliable communication
- · Long distance data transfer
- Economical

#### **Solution Elements**

The integration of the ring solution is possible only with inverters featuring RS485 or Power Line Communications (PLC). This solution is executed through the GoodWe Smart Communication Box 1000 (SCB1000) or Solar Communication Box 2000 (SCB 2000).

### **Solution Design**





The SCB1000 communicates with the inverter through RS485. Meanwhile, the SCB2000 establishes communication with the inverter through the PLC.

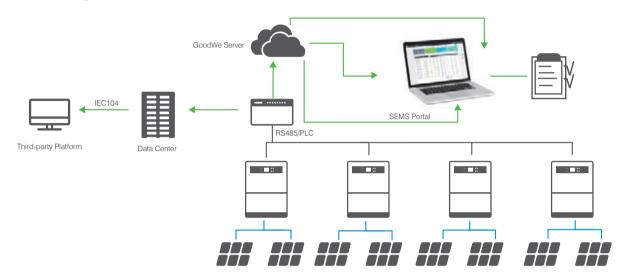
### **Multi-scenario Monitoring Solution**

There are many ways of monitoring a PV system and displaying the data generated. This kind of information helps users to gain a better understanding of the operation of their solar plants. The compatibility of the GoodWe inverters with multiple standard protocols such as SUNSPEC, IEC 104 and Modbus RTU and their adaptability to third-party monitoring and control platform such as SCADA, are one of the many reasons that make them a perfect fit for a great number of C&I scenarios.

#### **Advantages**

- Stable data transfer
- Compatible with third party devices & platforms
- Enhanced data security

#### **Solution Design**



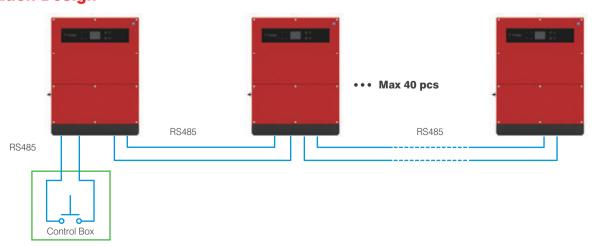
### **Remote Shutdown Solution**

The remote shutdown function is a critical protection primarily aimed at ensuring the integrity of the PV system under situations of extreme emergency, such as fire hazards. In Commercial & Industrial PV systems, it helps operators to enhance and consolidate the system control and maintain the comprehensive safety under challenging environments and conditions. GoodWe is pleased to introduce its Remote Shutdown Solution.

#### **Key Advantages**

- · Easy Installation
- 1km Range
- Swift Response (≤500ms)

#### **Solution Design**



### **Solar + Diesel Generator Solution**

GoodWe is pleased to introduce the Solar + Diesel Generator Solution. In the occurrence of grid failure, a diesel generator can be utilized as an alternative source of energy, supplying the power missing from the public grid and allowing the grid-connected PV systems to keep powering the loads of the system. The addition of a diesel generator brings the extra benefit of maximizing the use of the solar energy, helping as well to effectively reduce the electricity costs. This is an optimal solution for environments characterized by an unreliable grid operation.

#### **Advantages**

- · Automatic Switch
- Quick Recovery
- · Smooth Operation

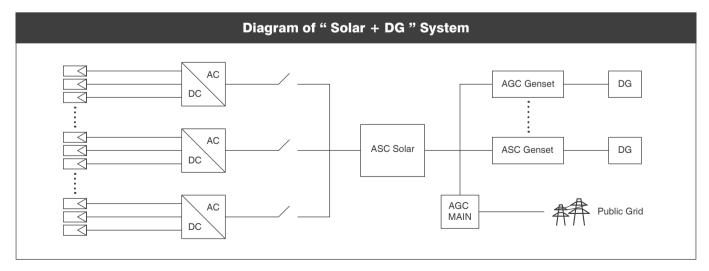
#### **DEIF Controller Integration**

For this kind of scenario, the C&I inverter of the GoodWe MT Series can be configured to coordinate with the DEIF Smart Power Controller Solution in order to automatically switch on/off the diesel generator according to the local circumstances and the user requirements.

#### **Solution Elements**



#### **Solar + DG Integration Scenario**



Please approach GoodWe for all questions related to the compatibility of this arrangement with other series of GoodWe inverters. For specific questions related to the controller integration on this scenario, please liaise directly with the manufacturer DEIF.

## **Export Power Limit Solution**

The Export Power Limit function is a critical tool of modern PV systems and its purpose is to help users to enhance and optimize self-consumption, helping them as well to comply with the local grid regulations. GoodWe has made an **Export Power Limit** Solution available to its customers, suitable for Commercial & Industrial projects of maximum capacity of 4.8MW.

#### **Key Advantages**

- · Convenient installation
- · Easy configuration
- · Customizable export power limit to either zero or designated value

#### **Solution Elements**

#### SEC1000

This solution requires the utilization of a GoodWe Smart Energy Controller 1000 (SEC1000). This device executes real-time data collection and analysis. In addition, it also helps to achieve an optimal allocation of the PV system resources.

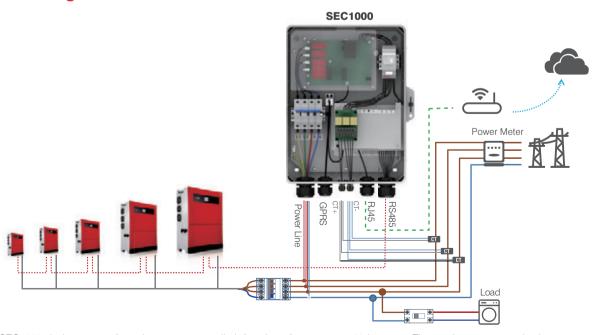




#### **Additional Benefits**

This solution supports the smooth operation of additional functions such as load consumption monitoring. The data generated by the system is accessible free of charge at the GoodWe Smart Energy Management System Portal (SEMS).

#### **Solution Design**



A single SEC1000 device can perform the export power limit function of as many as 60 inverters. The maximum communication coverage reaches up to 1000 meters.

# **SEC1000 / SEC1000S**

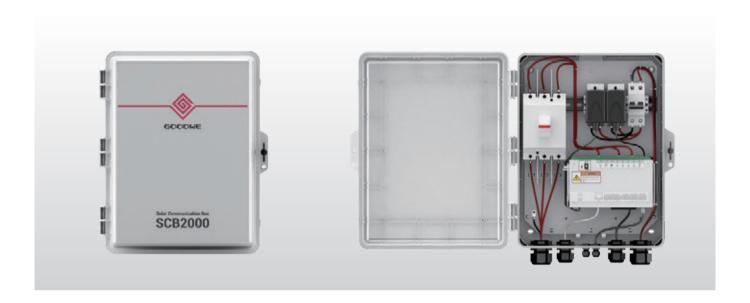
The SEC (Smart Energy Controller) is composed of GoodWe's three-phase meter and control board. It can be connected with SEMS to control and manage the performance of inverters in each string. SEC1000 is for monitoring, export power control and reactive power compensation, while SEC1000S is for export power control and ET Series inverter parallel control (up to 10 units). Small box, mighty functions!



Technical Data	SEC1000 (On-grid) SEC1000S (Storage)			
Input Voltage Range (V)	Phase Voltage: AC 60V~280V			
input voitage hange (v)	Line Voltage:	AC 100V~480V		
AC Input	3L/N/PE or 3L/PE			
Input Voltage Frequency	50Hz/60Hz			
Input Current Range	nge 5A(Max.)			
Rated Power Consumption	<10W			
Communication Mode with Inverter	RS485			
Maximum Distance for Controlling Inverter	1000m (Using the mode of shielded twisted pair)			
Maximum Number of Inverters in Controlling	60 pcs 10 pcs			
Communication Mode with Terminals	LAN or GPRS	NA		
Firmware	On-grid FW	Storage FW		
Operating Temperature Range (°C)	-25~60			
Relative Humidity	0~100%			
Level of Protection	IP65			
Size (L*W*H mm)	420×320×131mm			
Weight (Kg)	4	Kg		

# **SCB2000**

The SCB2000 (Solar Communication Box) is integrated by the following component sections: PLC communication board, data collector Ezlogger Proboard, GPRS module (optional), fiber ring network switch (optional) and three-phase/single-phase switch.



Technical Data	With Optical	Without Optical	
Power supply Input Voltage Range (V)	110-240V 50Hz/60Hz	110-240V 50Hz/60Hz	
Rated Power Consumption	≤18W	≤16W	
Communication Mode with Inverter	PLC	PLC	
Voltage Range of Input AC Line	342~690V	342~690V	
Max Length to Inverter	1000m	1000m	
Max Quantity of Inverter Connected	30	30	
Communication Mode with Server/Cloud	LAN/SC (can form optical fiber ring network) / GPRS	LAN/GPRS	
Max Length to Server/Cloud	LAN: 100m; optical fiber: 20km	LAN: 100m	
RS485	It can be connected to third-party devices such as environmental monitors		
Other Interface	USB, SD Card	USB, SD Card	
Operating Temperature Range (°C)	-25~60	-25~60	
Relative Humidity	0~100%	0~100%	
Protection Degree	IP65	IP65	
Size (Width*Height*Depth mm)	420*320*150	420*320*150	
Weight (Kg)	10.5	10	

# **SDT G2 Series Datasheet**



Technical Data	GW17KT-DT	GW20KT-DT	GW25KT-DT
PV String Input Data			
Max. DC Input Power (Wp)	25500	30000	37500
Max. DC Input Voltage (V)	1100	1100	1100
MPPT Range (V)	200~950	200~950	200~950
Starting Voltage (V)	180	180	180
Min. Feed-in Voltage (V)	210	210	210
Nominal DC Input Voltage (V)	620	620	600
Max. Input Current (A)	25/25	25/25	37.5/25
Max. Short Current (A)	31.2/31.2	31.2/31.2	46.8/31.2
No. of MPP Trackers	2	2	2
No. of Input Strings per Tracker	2/2	2/2	3/2
AC Output Data	•••••	***************************************	•••••
Nominal Output Power (W)	17000	20000	25000
Max. Output Apparent Power (VA)	19000*1	22000*1	27500 <sup>*1</sup>
Nominal Output Voltage (V)		400, 3L/N/PE	
Nominal Ouput Frequency (Hz)	50/60	50/60	50/60
Max. Output Current (A)	28.8	31.9	40.8
Output Power Factor	~1	Adjustable from 0.8 leading to 0.8 lag	ging)
Output THDi (@Nominal Output)	<3%	<3%	<3%
Efficiency	•••••	•••••	•••••
Max. Efficiency	98.4%	98.4%	98.4%
European Efficiency	>97.7%	>97.7%	>97.7%
Protection	•••••	•••••	•••••
Anti-Islanding Protection	Integrated	Integrated	Integrated
nput Reverse Polarity Protection	Integrated	Integrated	Integrated
nsulation Resistor Detection	Integrated	Integrated	Integrated
DC Surge Protection		Type III (Type II optional)	
AC Surge Protection		Type III	
Residual Current Monitoring Unit	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated
General Data	***************************************	***************************************	
Operating Temperature Range (°C)	-30~60	-30~60	-30~60
Relative Humidity	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	<u>≤</u> 4000	≤4000
Cooling	Fan Cooling	Fan Cooling	Fan Cooling
Jser Interface		LCD & LED	
Communication		WiFi or LAN or RS485(Optional)	
Weight (kg)	25	25	25
Size (Width*Height*Depth mm)	415*511*175	415*511*175	415*511*175
Protection Degree	IP65	IP65	IP65
		<1	
Night Self Consumption (W) Topology	<1	Transformerless	<1

<sup>\*</sup>¹: For Belgium Max. Output Apparent Power (VA): GW17KT-DT is 17000; GW20KT-DT is 20000; GW25KT-DT is 25000.
\*: Please visit GoodWe website for the latest certificates.

# **LV SMT/SMT Series Datasheet**



Technical Data	GW12KLV-MT	<b>GW15KLV-MT</b>	GW20KLV-MT	GW25K-MT	GW30K-MT	GW36K-MT
PV String Input Data	•••••	• • • • • • • • • • • • • • • • • • • •	••••••••••••	•••••	•••••	• • • • • • • • • • • • • • • • • • • •
Max. DC Input Power (Wp)	15600	19500	26000	32500	39000	42900
Max. DC Input Voltage (V)	800	800	800	1100	1100	1100
MPPT Range (V)	200~650	200~650	200~650	200~950	200~950	200~950
Start-up Voltage (V)	180	180	180	180	180	180
Nominal DC Input Voltage (V)	370	370	370	600	600	600
Max. Input Current (A)	25/25/25	25/25/25	25/25/25	25/25/25	25/25/25	25/25/25
Max. Short Current (A)	31.3/31.3/31.3/31.3	31.3/31.3/31.3/31.3	31.3/31.3/31.3/31.3	31.3/31.3/31.3	31.3/31.3/31.3	31.3/31.3/31.3
No. of MPP Trackers	3	3	3	3	3	3
No. of Input Strings per Tracker	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2
AC Output Data		• • • • • • • • • • • • • • • • • • • •	••••••••••		•••••	• • • • • • • • • • • • • • • • • • • •
Nominal Output Power (W)	12000	15000	20700	25000	30000	36000* <sup>1</sup>
Max. Output Power (W)	11300@208VAC 12000@220VAC 13100@240VAC	14400@208VAC 15000@220VAC 16600@240VAC	19600@208VAC 20700@220VAC 22600@240VAC	27500*²	33000*2	36000*2
Max. Output Apparent Power (VA)	13100	16600	22600	27500*3	33000*3	36000*3
Nominal Output Voltage (V)	150-300	150-300	150-300		00, 3L/N/PE or 3L/F	•
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	31.5	40	54.5	40	48	53.3
Output Power Factor		•	Adjustable from 0.8 le		•	
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency			• • • • • • • • • • • • • • • • • • • •		•••••	• • • • • • • • • • • • • • • • • • • •
Max. Efficiency	98.7%	98.7%	98.8%	98.7%	98.8%	98.8%
European Efficiency	>98.4%	>98.5%	>98.5%	>98.4%	>98.5%	>98.5%
Protection			• • • • • • • • • • • • • • • • • • • •	- 50.170	• • • • • • • • • • • • • • • • • • • •	
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
PV String Current Monitoring	integrated	integrated	integrated	Integrated	Integrated	Integrated
Anti-PID Function for Module				Optional	Optional	Optional
······································	Integrated	Integrated	Integrated			
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	<del></del>	•	Type III (Type II		······································	•••••
AC Surge Protection	Integrated	Integrated	Type III (Type II		Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AFCI	Optional	Optional	Optional	Optional	Optional	Optional
Terminal Temperature Detection	Optional	Optional	Optional	Optional	Optional	Optional
General Data						
Operating Temperature Range (°C)	-30~60	-30~60	-30~60	-30~60	-30~60	-30~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤3000	≤3000	≤3000	≤3000	≤3000	≤3000
Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling
User Interface			LCD & LED or A		<del></del>	•
Communication			RS485 or WiFi or C			• • • • • • • • • • • • • • • • • • • •
Weight (kg)	40	40	40	40	40	40
Size (Width*Height*Depth mm)	480*590*200	480*590*200	480*590*200	480*590*200	480*590*200	480*590*200
Size (Widin Height Deptimin)	***************************************	•				
Protection Degree	IP65	IP65	IP65	IP65	IP65	IP65

<sup>\*1: 33</sup>kW for Italy,36kW for other countries.
\*2: For Belgium Max. Output Power (W): GW25K-MT is 25000; GW30K-MT is 30000; GW36K-MT is 36000.
\*3: For Belgium Max. Output Apparent Power (VA): GW25K-MT is 25000; GW30K-MT is 30000; GW36K-MT is 36000.
\*: Please visit GoodWe website for the latest certificates.

# **LV MT/MT Series Datasheet**



Technical Data	GW30KLV-MT	GW35KLV-MT	GW50KLV-MT	GW50KN-M7	GW60KN-MT	GW50KBF-M
DC Input Data		•••••	• • • • • • • • • • • • • • • • • • • •		•••••	•••••
Max. PV Power (W)	54000	63000	90000	65000	80000	65000
Max. DC Input Voltage (V)	800	800	800	1100	1100	1100
MPPT Range (V)	200~650	200~650	200~650	200~1000	200~1000	200~1000
Starting Voltage (V)	200	200	200	200	200	200
Min. Feed-in Voltage (V)	210	210	210	210	210	210
Nominal DC Input Voltage (V)	370	370	370	620	620	620
Max. Input Current (A)	33/33/22/22	33/33/33/33	44/44/44/44	33/33/22/22	33/33/33/33	30/30/30/30
Max. Short Current (A)	41.5/41.5/27.5/27.5	41.5/41.5/41.5/41.5	55/55/55/55	41.5/41.5/27.5/27.	5 41.5/41.5/41.5/41.5	37.5/37.5/37.5/37
No. of MPP Trackers	4	4	4	4	4	4
No. of Input Strings per Tracker	3/3/2/2	3/3/3/3	4/4/4/4	3/3/2/2	3/3/3/3	2/2/2/2
AC Output Data	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •	•••••	•••••	•••••
Nominal Output Power (W)	30000	36000	50000	50000	60000	50000
Max. Output Power (W)	28800@208VAC 30000@220VAC 33000@240VAC	34500@208VAC 36000@220VAC 39900@240VAC	47300@208VAC 50000@220VAC 55000@240VAC	55000;57500 @415Vac* <sup>1</sup>	66000;69000 @415Vac* <sup>1</sup>	55000;57500 @415Vac* <sup>1</sup>
Max. Output Apparent Power (VA)	33000	39900	55000	55000;57500 @415Vac* <sup>2</sup>	66000;69000 @415Vac* <sup>2</sup>	55000;57500 @415Vac*²
Nominal Output Voltage (V)	150-300	150-300	150-300	400, default 3L	_+N+PE , 3L+PE o	ptional in settings
Nominal Ouput Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	80	96	133	80	96	80
Output Power Factor		~1 (	Adjustable from 0.8	leading to 0.8 lagg	ing)	
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency			•	••••	•••••	•••••
Max. Efficiency	98.7%	98.8%	98.7%	98.7%	98.8%	98.8%
European Efficiency	98.3%	98.5%	98.3%	98.3%	98.5%	98.3%
Protection		•••••	• • • • • • • • • • • • • • • • • • • •	•••••	***************************************	•••••
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-Islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
nput Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
nsulation monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC fuse	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-PID Function for Module	Optional	Optional	Optional	Optional	Optional	Optional
DC SPD Protection			Integrated	(Type II)	•••••	•••••
AC SPD Protection	***************************************		Integrated	(Type II)	••••••	•••••
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
General Data						
Ambient Temperature Range (°C)	-30~60	-30~60	-30~60	-30~60	-30~60	-30~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling
Display	LCD or V	WiFi+APP	LED, WiFi+APP		LCD or WiFi+API	P
Communication	RS485	or WiFi	RS485 & WiFi, PLC(Optional)		RS485 or WiFi or P	LC
Weight (kg)	59	64	70	59	64	60
Dimension (Width*Height*Depth mm)	586*788*264	586*788*264	586*788*267	586*788*264	586*788*264	586*788*264
Protection Degree	IP65	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1	<1
Topology		•••••	Transforn	•••••		······································

<sup>\*1:</sup> For Belgium Max. Output Power (W): GW50KN-MT is 50000; GW60KN-MT is 60000; GW50KBF-MT is 50000.
\*2: For Belgium Max. Output Apparent Power (VA): GW50KN-MT is 50000; GW60KN-MT is 60000; GW50KBF-MT is 50000.
\*2: Please visit GoodWe website for the latest certificates.

## **MT Series Datasheet**



DC Input Data	•=••••	•	•••••	<b>-</b>		• • • • • • • • • • • • • • • • • • • •	
Max DV Power (M)	90000	07500	104000	01000	120000	110500	120000
Max. PV Power (W) Max. DC Input Voltage (V)	80000 1100	97500 1100	104000 1100	91000	120000 1100	112500 1100	120000 1100
		200~1000	200~1000	•		·· <b>··</b> ·····	•••••
MPPT Range (V)	200~1000	•		200~1000	200~1000	200~1000	200~1000
Starting Voltage (V)	200	200	200	200	200	200	200
Min. Feed-in Voltage (V)	210	210	210	210	210	210	210
Nominal DC Input Voltage (V)	620	750	800	750	800	600	620
Max. Input Current (A)	44/44/44/44	44/44/44/44	39/39/39/39	33/33/33/33	44/44/44/44	44/44/44/44	44/44/44/44
Max. Short Current (A) No. of MPP Trackers	55/55/55/55 4	55/55/55/55 4	54.8/54.8/54.8/ 4	41.5/41.5/41.5	55/55/55/55 4	55/55/55/55 4	55/55/55/55
No. of Input Strings per Tracker	3/3/3/3	3/3/3/3	3/3/3/3	3/3/3/3	3/3/3/3	***************************************	Standard) (Optional, icial module)
AC Output Data	•••••	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
Nominal Output Power (W)	60000	75000	80000	70000	80000	75000	80000
Max. Output Power (W)	66000;69000 @415Vac*1	82500* <sup>1</sup>	88000* <sup>1</sup>	77000*1	88000* <sup>1</sup>	75000	88000* <sup>1</sup>
Max. Output Apparent Power (VA)	66000;69000 @415Vac* <sup>2</sup>	82500*²	88000*2	77000*²	88000*2	75000	88000*2
Nominal Output Voltage (V)	400, default 3L+N+PE, 3L+PE optional in settings	500, 3L/PE	540, 3L/PE	500, 3L/PE	540, 3L/PE	380/415	400, default 3L +N+PE, 3L+PE optiona in settings
Nominal Ouput Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	96	95.3	94.1	89	94.1	133	133
Output Power Factor			~1 (Adjustable	from 0.8 leading to	0.8 lagging)	•	
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency	•••••	• • • • • • • • • • • • • • • • • • • •	***************************************	• • • • • • • • • • • • • • • • •	••••••	• • • • • • • • • • • • • • • • • • • •	•••••••
Max. Efficiency	98.8%	99.0%	99.0%	99.0%	99.0%	98.8%	98.8%
European Efficiency <b>Protection</b>	98.3%	98.4%	98.4%	98.4%	98.4%	98.3%	98.3%
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-Islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
nput Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
nsulation monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC fuse	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-PID Function for Module	Optional	Optional	Optional	Optional	Optional	Optional	Optional
DC SPD Protection	i	•	··•···	ntegrated (Type II)		······································	
AC SPD Protection		•	lr	ntegrated (Type II)		······	••••••
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Humidity Monitoring	NA	NA	NA	NA	NA	Integrated	Integrated
General Data	•••••	•••••	•••••	••••••••••••	•••••	• • • • • • • • • • • • • • • • • • • •	•••••••
Ambient Temperature Range (°C)	-30~60	-30~60	-30~60	-30~60	-30~60	-30~60	-30~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling
Display		LED, WiFi+APP		LCD or WIFI+APP	LED, WIFI+APP	·····	LED, WiFi+AF
Communication	•••••		RS485 or WIFI or P	LC		RS485 & WiFi, PLC(Optional)	RS485 & WiF PLC(Optiona
Weight (kg)	65	65	65	60	65	70	70
Dimension (Width*Height*Depth mm)	586*788*267	586*788*267	586*788*267	586*788*264	586*788*264	586*788*267	586*788*267
Protection Degree	IP65	IP65	IP65	IP65	IP65	IP65	IP65
i iotection begree							

<sup>\*1;</sup> For Belgium Max. Output Power (W): GW60KBF-MT is 60000; GW75KBF-MT is 75000; GW80KBF-MT is 80000; GW70KHV-MT is 70000; GW80KHV-MT is 80000, GW80K-MT is 80000.
\*2: For Belgium Max. Output Apparent Power (VA): GW60KBF-MT is 60000; GW75KBF-MT is 75000; GW80KBF-MT is 80000; GW70KHV-MT is 70000; GW80KHV-MT is 80000.
\*2: Please visit GoodWe website for the latest certificates.

# **HT Series Datasheet**

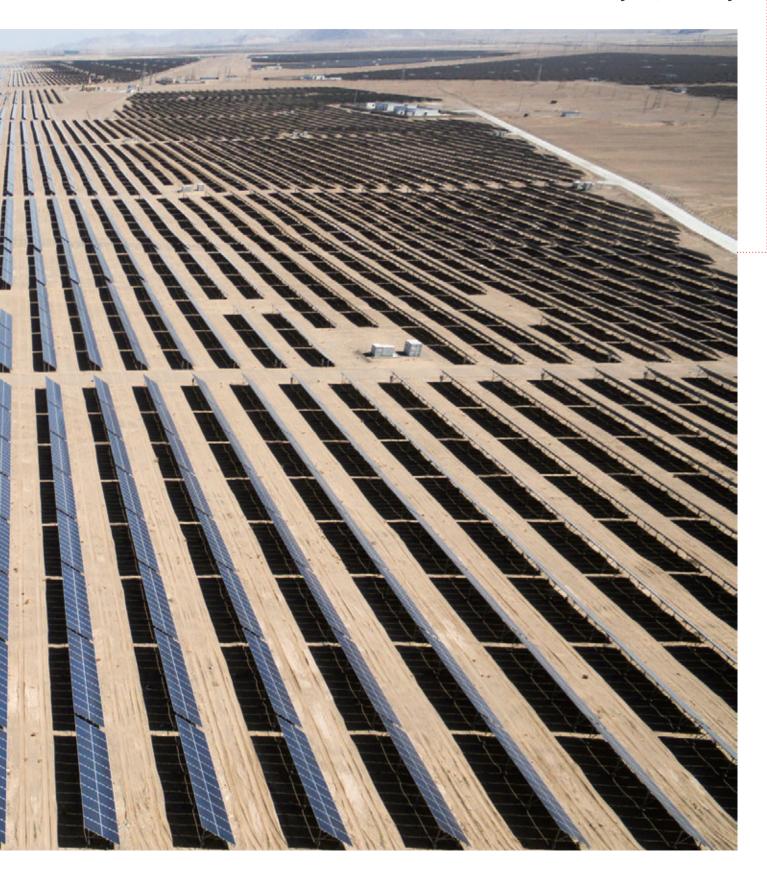


Technical Data	GW100K-HT	GW110K-HT	GW120K-HT	GW136K-HTH			
PV String Input Data							
Max. DC Input Power (kW)	150	165	180	205			
Max. DC Input Voltage (V)	1100	1100	1100	1100			
MPPT Range (V)	180~1000	180~1000	180~1000	180~1000			
Min. Start-up Voltage (V)	200	200	200	200			
MPPT Range for Full Load (V)	470~850	470~850	470~850	620~850			
Nominal DC Input Voltage (V)	600	600	600	750			
Max. Input Current (A)	10*30A	10*30A	12*30A	12*30A			
Max. Short Current (A)	10*45A	10*45A	12*45A	12*45A			
No. of MPP Trackers	10	10	12	12			
No. of Input Strings per Tracker	2	2	2	2			
AC Output Data	•••••	•••••	•••••	•••••			
Nominal Output Power (kW)	100	110	120	136			
Max. Output Power (kW)	110	121	132	150			
Max. Output Apparent Power (kVA)	110	121	132	150			
Nominal Output Voltage (V)	400, 3L/N/PE or 3L/PE	400, 3L/N/PE or 3L/PE	400, 3L/N/PE or 3L/PE	500V, 3L/PE			
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60			
Max. Output Current (A)	167	175.5	191.3	173.2A			
Output Power Factor	107	•	3 leading to 0.8 lagging)	170.2A			
Dutput THDi (@Nominal Output)	<3%	<3%	<3%	<3%			
······································	< 3%	< 3%	< 3%	< 3%			
Efficiency  Max. Efficiency	98.6%	98.6%	98.6%	99.0%			
······································			<del>-</del>	<del>-</del>			
European Efficiency	98.3%	98.3%	98.3%	98.5%			
Protection							
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated			
nternal Humidity Detection	Integrated	Integrated	Integrated	Integrated			
nsulation Resistor Detection	Integrated	Integrated	Integrated	Integrated			
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated			
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated			
nput Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated			
DC SPD Protection	Type II (Type I optional)						
AC SPD Protection	Type II (Type I optional)						
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated			
Output Short Protection	Integrated	Integrated	Integrated	Integrated			
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated			
Arc Fault Protection	Optional	Optional	Optional	Optional			
Emergency Power off	Optional	Optional	Optional	Optional			
AC Terminal Over-temperature Protection	Optional	Optional	Optional	Optional			
PID Recovery	Optional	Optional	Optional	Optional			
General Data							
Operating Temperature Range (°C)	-30~60	-30~60	-30~60	-30~60			
Relative Humidity	0~100%	0~100%	0~100%	0~100%			
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000			
Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling			
Display		LED(Standard), LCD(O	otional) ,Bluetooth+APP	•			
Communication	RS485 or PLC or WiFi	RS485 or PLC or WiFi	RS485 or PLC or WiFi	RS485 or PLC or Wi			
Weight (kg)	93.5	93.5	98.5	98.5			
Dimension (Width*Height*Depth mm)	1005*676*340	1005*676*340	1005*676*340	1005*676*340			
Protection Degree	IP66	IP66	IP66	IP66			
Night Self Consumption (W)	<2	<2	<2	<2			
Topology		•	rmerless				

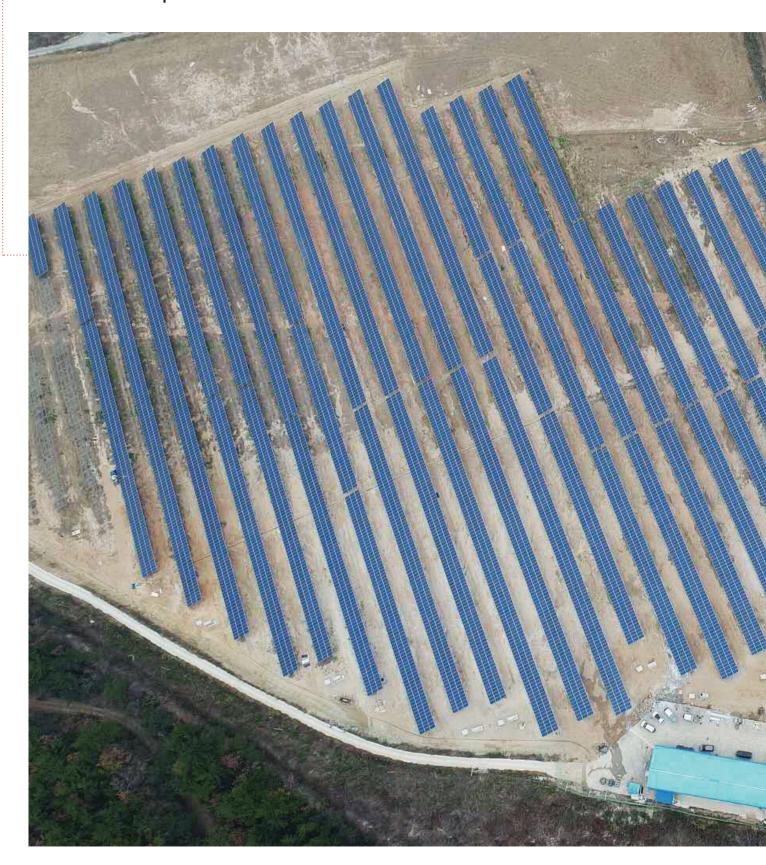
<sup>\*:</sup> Please visit GoodWe website for the latest certificates.



# 18MW Konya | Turkey



# 5MW Muan | South Korea









1MW Kahramanmaraş | Turkey

# 1MW Kherson | Ukraine



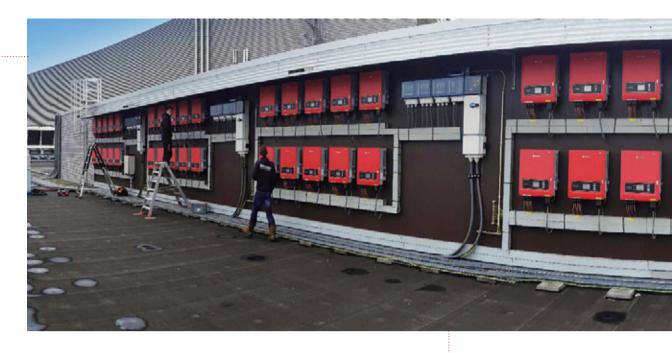


11MW De Munt Emmeloord | Holland



2MW Izmir | Turkey





2MW Amsterdam | Netherlands



200KW Coventry | UK





12MW Rotterdam | Holland



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Note: The technical data above mentioned may be modified in order to reflect continuous technical innovation and improvements achieved by GoodWe's R & D team. GoodWe has the sole right to make such modification at any time without further notice. GoodWe's customers have the right to request the latest version of GoodWe product datasheets and any commercial contracts that may be signed will be based on the most recent version of the datasheet at the moment of signing the contract.

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# **Bring The Sun Home**

**Comfort and savings with our residential inverters** 







# DRIVING TOGETHER TO A GREEN FUTURE



Start-up Voltage @40V



Highest Efficiency up to 98.6%

100%

Up to 100% DC Oversizing

**10**%

10% AC Overloading



**Built-in Export Limit Function** 



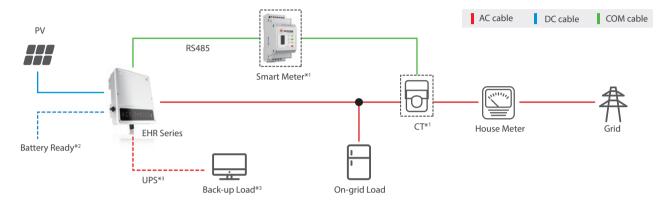
Compatible with Bifacial Modules

# **GoodWe Battery Ready Application**

# **EHR Series**

The GoodWe EHR series consists of a single-phase hybrid inverter with a section exclusively designed for energy storage. It is introduced as a conventional on-grid inverter, but from the hardware point of view, this contraption is a hybrid inverter.

- Achieve real-time load status monitoring with GoodWe's smart meter.
- Adjustable export power limit function integrated.



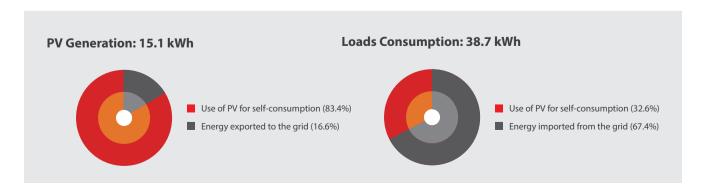
- \*1 The smart meter comes in an optional package that includes a pre-wired CT (current transformer).
- \*2 The "Battery Ready" function enables users to upgrade EHR system into energy storage system without extra equipment.
- \*3 The backup mode is available only after the battery is connected. The backup & UPS functions will be activated once the battery has been installed and connected.

# The "Battery Ready" Concept

Integrating the "Battery Ready" concept, the GoodWe EHR inverter works as a conventional on-grid inverter. However, this inverter is designed so that the user, once he has decided to increase his level of self-consumption, can convert the EHR into an energy storage system by only acquiring an activation code. GoodWe offers an economical option for all those users who at the beginning are still undecided about whether or not to acquire an energy storage system.

# Consumption Monitoring (Optional)

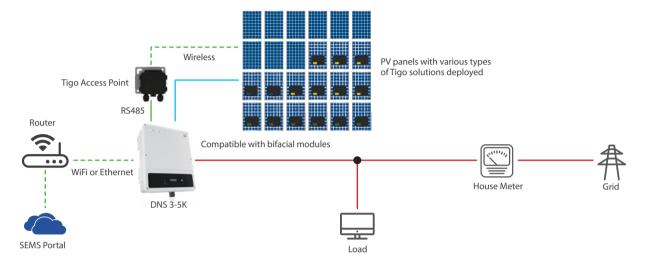
As illustrated in the diagram, the EHR Series counts with an option to carry out monitoring in real time through the use of an intelligent meter. With the assistance of the GoodWe monitoring platform, the EHR Series can also calculate self-consumption levels per day, month or year, providing a comprehensive overview of the consumption of the loads, and the general efficiency achieved in the use of solar energy.



# **GoodWe Optimizer Application**

# GoodWe DNS + Tigo Solution

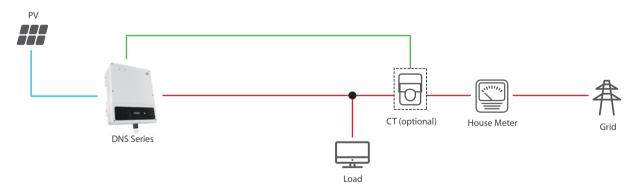
GoodWe's DNS inverter is equipped with Tigo's integrated Cloud Connect Advanced (CCA) and deployed with Tigo's TS4 Platform module-level power electronics. This solution has the ability to establish comprehensive communication with the Tigo Access Point (TAP). This reduces costs of the PV system which also benefits from all the advantages of Tigo, such as module-level monitoring, rapid shutdown, and optimization. All the data coming from both the inverters performance, as well as from Tigo, are integrated into GoodWe's monitoring platform.



• Tigo is an economical solution designed for shaded panels. It is not required to install optimaztions for all panels with Tigo solution.

# Zero-export (Optional)

The DNS inverter features a Zero Export function among its settings. This function can be activated with the use of a current transformer, which has the ability to detect any current flow to the grid and communicate this information to the inverter.



# Protective DC Isolator (Optional)

The GoodWe DNS Series also offers an optional package equipped with a DC isolator of level PV2, fully protected from other internal parts of the inverter and separated from the external environment. This is a design conceived to ensure the safety of the electricians at the time of installation and maintenance.

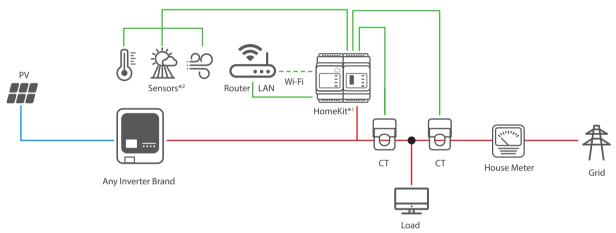
# **GoodWe HomeKit Application**

# 24 Hours Real-time Consumption Monitoring

The GoodWe HomeKit is a solution designed to monitor load energy consumption in real time for 24 hours. Based on the best design principles, the HomeKit is tailored to the needs of the home and requires only an internet connection. An additional advantage of this system is that it is compatible with different brands of inverters, contributing in an important way to maintain a record of the load consumption. The data collected is stored in the cloud by Wi-Fi or LAN. The end users benefit by achieving a better understanding of their electricity consumption and the source from which it is generated.

# Weather Monitoring (Optional)

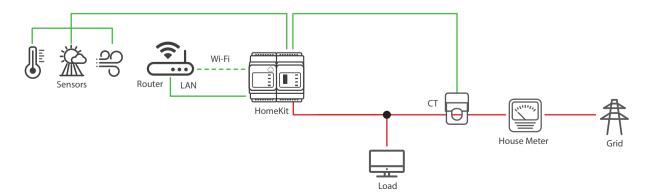
By connecting to temperature, irradiation and wind speed sensors, the HomeKit has the ability to monitor weather conditions in real time. In combination with SEMS, the system can also predict solar generation and cross-check data, also analyzing the inconsistencies of information to anticipate problems that may affect the solar system.



- \*1 The current version of HomeKit supports single-phase systems. An upgraded version able to support three-phase systems will be available in the near future.
- \*2 Sensors for the measurement of irradiation, ambient temperature, module temperature, the wind speed as well as sensors of other types, can also be connected to the system.

# GoodWe HomeKit for Households without PV

Simply by connecting to the internet, the GoodWe HomeKit Solution can carry out consumption monitoring in real time, helping users to achieve a more detailed understanding of the electricity consumption at home and allowing also to assess the concrete benefits of a potential PV installation.



# **EHR Series**

Dual-MPPT, Single-Phase



- 1					
Technical Data	GW3600-EH	GW5000-EH	GW6000-EH		
Battery Input Data*					
Battery Type	Li-lon	Li-lon	Li-lon		
Battery Voltage Range(V)	85~450	85~450	85~450		
Start-up Voltage (V)	90	90	90		
Max. Charging/Discharging Current (A)	25/25	25/25	25/25		
Max. Charging/Discharging Power (W)	3600	5000	6000		
Battery Ready Optional Function	YES	YES	YES		
PV String Input Data					
Max. DC Input Power (W)	4800	6650	8000		
Max. DC Input Voltage (V)	580	580	580		
MPPT Range (V)	100~550	100~550	100~550		
Start-up Voltage (V)	90	90	90		
MPPT Range for Full Load (V)	150~550	210~550	250~550		
Nominal DC Input Voltage (V)	380	380	380		
Max. Input Current (A)	12.5/12.5	12.5/12.5	12.5/12.5		
Max. Short Current (A)	15.2/15.2	15.2/15.2	15.2/15.2		
No. of MPP Trackers	2	2	2		
No. of Strings per MPP Tracker	1	1	1		
AC Output/Input Data (On-grid)					
Nominal Apparent Power Output to Utility Grid (VA)*2	3600	5000	6000		
Max. Apparent Power Output to Utility Grid(VA)*2*5		5000/5500*1	6000/6600*1		
Max. Apparent Power from Utility Grid (VA)	7200 (Charging 3.6kw,backup output3.6kw)		12000 (Charging 6kw,backup output 6kw)		
Nominal Output Voltage (V)	230	230	230		
Nominal Ouput Frequency (Hz)	50/60	50/60	50/60		
Max. AC Current Output to Utility Grid (A)*2	16/18*1	21.7/24*1	26.1/28.7*1		
Max. AC Current From Utility Grid (A)	32	43.4	52.2		
Output Power Factor		(Adjustable from 0.8 leading to 0.8 laggi	, 3		
Output THDi (@Nominal Output)	<3%	<3%	<3%		
AC Output Data (Back-up)*					
Max. Output Apparent Power (VA)	3600	5000	6000		
Peak Output Apparent Power (VA)	4320 ,60sec	6000 ,60sec	7200 ,60sec		
Max. Output Current (A)	15.7	21.7	26.1		
Automatic Switch Time (ms)	222 ( . 22( )	<10	222 (+224)		
Nominal Output Voltage (V)	230 (±2%)	230 (±2%)	230 (±2%)		
Nominal Ouput Frequency (Hz)	50/60 (±0.2%)	50/60 (±0.2%)	50/60 (±0.2%)		
Output THDv (@Linear Load)	<3%	<3%	<3%		
Efficiency	07.60/	07.60/	07.60/		
PV Max. Efficiency	97.6%	97.6%	97.6%		
PV European Efficiency	97.0%	97.0%	97.0%		
PV Max. MPPT Efficiency	99.9%	99.9%	99.9%		
Battery Charged By PV Max. Efficiency	98%	98%	98%		
Battery Charge/discharge From/To AC Max. Efficiency	96.6%	96.6%	96.6%		
Protection	Introduction I	Introduction I	Introduction I		
Anti-Islanding Protection	Integrated	Integrated	Integrated		
Battery Input Reverse Polarity Protection Insulation Resistor Detection	Integrated	Integrated	Integrated		
	Integrated Integrated	Integrated	Integrated		
Residual Current Monitoring Unit	Integrated	Integrated	Integrated		
Output Over Current Protection	Integrated	Integrated	Integrated		
Grid Output Short Protection Output Over Voltage Protection	Integrated	Integrated Integrated	Integrated Integrated		
General Data	integrated	Integrated	Integrated		
Operating Temperature Range (°C)	-35~60	-35~60	-35~60		
Relative Humidity	-35~60 0~95%	-35~60 0~95%	-35~60 0~95%		
Operating Altitude (m)	4000	4000	4000		
Cooling	4000	Natural Convection	4000		
Noise (dB)	<35	<35	<35		
User Interface	LED & APP	LED & APP	LED & APP		
Communication with BMS*3	RS485; CAN	RS485; CAN	RS485; CAN		
Communication with Meter	RS485	RS485	RS485		
Communication with Neter	11,5403	Wi-Fi/Ethernet (Optional)	11,5403		
	17	17	17		
Weight (kg) Size (Width*Height*Depth mm)	354*433*147	354*433*147	354*433*147		
Mounting Protection Degree	Wall Bracket	Wall Bracket	Wall Bracket		
Standby Self Consumption (W)*4	IP65 <10	IP65 <10	IP65 <10		
, , , , , , , , , , , , , , , , , , , ,	<10	I .	<10		
Topology		Battery Non-Isolation			

<sup>\*2:</sup> The grid feed in power for VDE-AR-N 4105 and NRS097-2-1 is limited 4600VA, for AS/NZS 4777.2 is limited 4950VA & 21.7A.

<sup>\*\*:</sup> The grid feed in power for VDE-AR-N 4 I US and NRSU97-2-1 is limited 4600VA, for AS/NZS 4/77.2 is limited 4950VA & 21.7A.
\*\*: CAN communication is configured by default. If 485 communication is used, please replace the corresponding communication line.
\*\*: No Back-up Output.

\*5: For Belgium Max. Output Apparent Power (VA): GW3600-EH is 3600; GW5000-EH is 5000; GW6000-EH is 6000.

\*Please visit GoodWe website for the latest certificates.

<sup>\*:</sup> An activation code is required when connecting to an approved Lithium-Ion Battery. It can be purchased from GoodWe's authorized dealers or distributors.

GoodWe only acknowledges the activation code purchased from our authorized dealers or distributors.

GoodWe's Smart Meter, an optional accessory, is able to monitor load consumption. It can be purchased through authorized dealers or distributors.

# **HomeKit**

The GoodWe's HomeKit consists of a smart meter and a communication module with WiFi and LAN. HomeKit offers 24 hours real-time consumption control. It is also compatible with different brands of inverters.



Model		HK1000			
	Voltage Range	100Vac~240Vac			
Voltage	Frequency	50Hz / 60Hz			
Current	Nominal Current	CT in:120A / 40mA			
	Current Range	0.48A-120A			
Self-Consumption		<5W			
Data Detection		Active Power / Reactive Power / Power Factor / Frequency			
Energy Calculation		Active/Reactive Power Energy			
	Voltage/ Current	Class 1			
Precision	Active Power	Class 1			
	Reactive Power	Class 2			
Communication		WiFi or LAN			

# **Smart Energy Management System**

The Smart Energy Management System (SEMS) of GoodWe is an open protocol monitoring platform. It is designed to help operators to monitor a diverse range of PV plants operating at different places simultaneously. SEMS carries extensive data processing, including the production of customized charts. Its system of notifications and maintenance functions help the operators of PV assets to manage the generation of energy efficiently and comfortably, contributing to higher system yields.

# Multi-terminal Compatibility



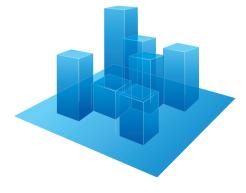


# Lower O&M Cost:

Full visibility of system performance & remote troubleshooting







# Report Generation & Customized Data Analysis

Precise and comprehensive detection & evaluation of plant data

The content and design of the reports can be adjusted to suit individual requirements. A report generator is also available in addition to the standard reports.





Technical Data	GW700-XS	GW1000-XS	GW1500-XS	GW2000-XS	GW2500-XS	GW3000-XS				
PV String Input Data										
Max. DC Input Power (W)	910	1300	1950	2600	3250	3900				
Max. DC Input Voltage (V)	500	500	500	500	500	500				
MPPT Range (V)	40~450	40~450	50~450	50~450	50~450	50~450				
Start-up Voltage (V)	40	40	50	50	50	50				
Min. Feed-in Voltage(V)	50	50	75	75	75	75				
Nominal DC Input Voltage (V)	360	360	360	360	360	360				
Max. Input Current (A)	12.5	12.5	12.5	12.5	12.5	12.5				
Max. Short Current (A)	15.6	15.6	15.6	15.6	15.6	15.6				
No. of MPP Trackers	1	1	1	1	1	1				
No. of Input Strings per Tracker	1	1	1	1	1	1				
AC Output Data		I								
Nominal Output Power (W)	700	1000	1500	2000	2500	3000				
Max. Output Apparent Power (VA)	770* <sup>1</sup>	1100*1	1650* <sup>1</sup>	2200*1	2750* <sup>1</sup>	3300* <sup>1</sup>				
Nominal Output Voltage (V)	230	230	230	230	230	230				
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60				
Max. Output Current (A)	3.5	4.8	7.2	9.6	12	14.3				
Output Power Factor		_	·1 (Adjustable from 0.8	B leading to 0.8 lagging	g)					
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%	<3%				
Efficiency		1	ı	ı						
Max. Efficiency	97.2%	97.2%	97.3%	97.5%	97.6%	97.6%				
European Efficiency	96.0%	96.4%	96.6%	97.0%	97.2%	97.2%				
Protection		1		ı						
Anti-Islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated				
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated				
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated				
DC SPD Protection			Integrated	d (Type III)						
AC SPD Protection			Integrated	d (Type III)						
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated				
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated				
Output Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated				
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated				
General Data										
Operating Temperature Range (°C)	-25~60	-25~60	-25~60	-25~60	-25~60	-25~60				
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%				
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000				
Cooling			Natural C	onvection						
User Interface	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED				
Communication			WiFi or LA	N or RS485						
Weight (kg)	5.8	5.8	5.8	5.8	5.8	5.8				
Size (Width*Height*Depth mm)	295*230*113	295*230*113	295*230*113	295*230*113	295*230*113	295*230*113				
Protection Degree	IP65	IP65	IP65	IP65	IP65	IP65				
Night Self Consumption (W)	<1	<1	<1	<1	<1	<1				
Topology	Transformerless									

<sup>\*1:</sup> For Belgium Max. Output Apparent Power (VA): GW700-XS is 700; GW1000-XS is 1000; GW1500-XS is 1500; GW2000-XS is 2000; GW2500-XS is 2500; GW3000-XS is 3000.
\*: Please visit GoodWe website for the latest certificates.



# **DNS Series**

Dual-MPPT, Single-Phase



			T	_		
Technical Data	GW3000D-NS	GW3600D-NS	GW4200D-NS	GW5000D-NS	GW6000D-NS	
PV String Input Data			I			
Max. DC Input Power (W)	3900	4680	5460	6500	7200	
Max. DC Input Voltage (V)	600	600	600	600	600	
MPPT Range (V)	80~550	80~550	80~550	80~550	80~550	
Start-up Voltage (V)	80	80	80	80	80	
Min. Feed-in Voltage(V)	120	120	120	120	120	
Nominal DC Input Voltage (V)	360	360	360	360	360	
Max. Input Current (A)	11/11	11/11	11/11	11/11	11/11	
Max. Short Current (A)	13.8/13.8	13.8/13.8	13.8/13.8	13.8/13.8	13.8/13.8	
No. of MPP Trackers	2	2	2	2	2	
No. of Input Strings per Tracker	1	1	1	1	1	
AC Output Data		1				
Nominal Output Power (W)	3000* <sup>1</sup>	3680* <sup>1</sup>	4200*1	5000*1	6000* <sup>1</sup>	
Max. Output Apparent Power (VA)	3000	3680	4200	5000	6000	
Nominal Output Voltage (V)	220/230	220/230	220/230	220/230	220/230	
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	
Max. Output Current (A)	13.6	16	19	22.8	27.3	
Output Power Factor		~1 (Adjus	table from 0.8 leading to 0	.8 lagging)		
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%	
Efficiency						
Max. Efficiency	97.8%	97.8%	97.8%	97.8%	97.8%	
European Efficiency	97.5%	97.5%	97.5%	97.5%	97.5%	
Protection						
Anti-Islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated	Integrated	
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	
Output Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated	
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	
DC SPD Protection			Integrated (Type III)			
AC SPD Protection			Integrated (Type III)			
General Data						
Operating Temperature Range (°C)	-25~60	-25~60	-25~60	-25~60	-25~60	
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%	
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000	
Cooling			Natural Convection			
User Interface	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED	
Communication	RS485 or WiFi or LAN	RS485 or WiFi or LAN	RS485 or WiFi or LAN	RS485 or WiFi or LAN	RS485 or WiFi or LAN	
Weight (kg)	13	13	13	13	13.5	
Size (Width*Height*Depth mm)	354*433*147	354*433*147	354*433*147	354*433*147	354*433*147	
Protection Degree	IP65	IP65	IP65	IP65	IP65	
Night Self Consumption (W)	<1	<1	<1	<1	<1	
Topology	Transformerless					

<sup>\*1:</sup> For CEI 0-21 Nominal Output Power GW3000D-NS is 2700, GW3680D-NS is 3350, GW4200D-NS is 3800, GW5000D-NS is 4540, GW6000D-NS is 5450.
\*2: Please visit GoodWe website for the latest certificates.



# **MS Series**

Three-MPPT, Single-Phase



Technical Data	GW5000-MS	GW6000-MS	GW7000-MS	GW8500-MS	GW10K-MS		
PV String Input Data							
Max. DC Input Power (Wp)	10000	12000	13500	13500	13500		
Max. DC Input Voltage (V)	600	600	600	600	600		
MPPT Range (V)	80~550	80~550	80~550	80~550	80~550		
Start-up Voltage (V)	80	80	80	80	80		
Min. Feed-in Voltage(V)	120	120	120	120	120		
Nominal DC Input Voltage (V)	360	360	360	360	360		
Max. Input Current (A)	12.5/12.5/12.5	12.5/12.5/12.5	12.5/12.5/12.5	12.5/12.5/12.5	12.5/12.5/12.5		
Max. Short Current (A)	15/15/15	15/15/15	15/15/15	15/15/15	15/15/15		
No. of MPP Trackers	3	3	3	3	3		
No. of Input Strings per Tracker	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1		
AC Output Data	.,.,.	1, 1, 1	.,,,,	., ., .	.,.,		
Nominal Output Power (W)	5000	6000	7000	8500	10000		
Max. Output Apparent Power (VA)	5500	6600	7700	9350	10000		
Nominal Output Voltage (V)	220/230	220/230	220/230	220/230	220/230		
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60		
Max. Output Current (A)	25	30	35	42.5	45.5		
	25	l .			45.5		
Output Power Factor	*20/	1	table from 0.8 leading to 0		*20/		
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%		
Efficiency							
Max. Efficiency	97.7%	97.7%	97.7%	97.7%	97.7%		
European Efficiency	97.3%	97.3%	97.3%	97.3%	97.3%		
Protection							
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated		
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated		
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated	Integrated		
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated		
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated		
Output Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated		
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated		
DC SPD Protection			Type II				
AC SPD Protection			Type III (Type II optional)				
General Data							
Operating Temperature Range (°C)	-25~60	-25~60	-25~60	-25~60	-25~60		
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%		
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000		
Cooling			Natural Convection				
User Interface	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED		
Communication			RS485; WiFi/LAN (Optional	)			
Weight (kg)	22.5	22.5	22.5	22.5	22.5		
Size (Width*Height*Depth mm)	511*415*175	511*415*175	511*415*175	511*415*175	511*415*175		
Protection Degree	IP65	IP65	IP65	IP65	IP65		
Night Self Consumption (W)	<1	<1	<1	<1	<1		
Topology			Transformerless				

 $<sup>\</sup>hbox{\rm *:}\ {\sf Please}\ {\sf visit}\ {\sf GoodWe}\ {\sf website}\ {\sf for}\ {\sf the}\ {\sf latest}\ {\sf certificates}.$ 

# **SDT G2 Series**

Dual-MPPT, Three-Phase



Technical Data	GW4K-DT	GW5K-DT	GW6K-DT	GW8K-DT	GW10KT-DT	GW12KT-DT	GW15KT-D
PV String Input Data							
Max. DC Input Power (Wp)	6000	7500	9000	12000	15000	18000	22500
Max. DC Input Voltage (V)	1000	1000	1000	1000	1000	1000	1000
MPPT Range (V)	180~850	180~850	180~850	180~850	180~850	180~850	180~850
Start-up Voltage (V)	160	160	160	160	160	160	160
Min. Feed-in Voltage(V)	210	210	210	210	210	210	210
Nominal DC Input Voltage (V)	620	620	620	620	620	620	620
Max. Input Current (A)	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5	12.5/25	12.5/25
Max. Short Current (A)	15.6/15.6	15.6/15.6	15.6/15.6	15.6/15.6	15.6/15.6	15.6/31.2	15.6/31.2
No. of MPP Trackers	2	2	2	2	2	2	2
No. of Input Strings Per MPP Tracker		1/1	1/1	1/1	1/1	1/2	1/2
AC Output Data	17.1	17.1	17.1	17.1	171	1/2	1/2
Nominal Output Power (W)	4000	5000	6000	8000	10000	12000	15000
Max. Output Apparent Power (VA)	4400*1	5500*1	6600*1	8800*1	11000*1	13200*1	16500*1
	4400"	3300"	6600"		11000"	13200*	10300"
Nominal Output Voltage (V)	50/60	50/60	50/50	400, 3L/N/PE	50/50	50/50	50/60
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	6.4	8	9.6	12.8	16	20.3	24
Output Power Factor			. ,	le from 0.8 leading	1	T	
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency							
Max. Efficiency	98.2%	98.2%	98.2%	98.2%	98.3%	98.3%	98.3%
European Efficiency	>97.6%	>97.6%	>97.6%	>97.6%	>97.7%	>97.7%	>97.7%
Protection							
Anti-Islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Surge Protection				Integrated (Type	III)		
AC Surge Protection				Integrated (Type	III)		
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
General Data			1				
Operating Temperature Range (°C)	-30~60	-30~60	-30~60	-30~60	-30~60	-30~60	-30~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling	Natural Cooling	Natural Cooling	Natural Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling
User Interface				LCD&LED		_	
Communication				WiFi or LAN or RS4	185		
Weight (kg)	15	15	15	16	16	18	18
Size (Width*Height*Depth mm)	354*433*147	354*433*147	354*433*147	354*433*155	354*433*155	354*433*155	354*433*155
Protection Degree	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1	<1	<1
riight seil consumption (w)	<u> </u>	<u> </u>	<u> </u>	<u> </u>		×1	<u> </u>

 $<sup>*^1</sup>$ : 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.

<sup>\*:</sup> Please visit GoodWe website for the latest certificates.



# **International Awards & Rankings**



ALL QUALITY MATTERS AWARD

2015-2019



2019





2017-2020



2018



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