Bring The Sun Home

Comfort and savings with our residential inverters

www.goodwe.com

GOODWE
YOUR SOLAR ENGINE

DRIVING TOGETHER TO A GREEN FUTURE

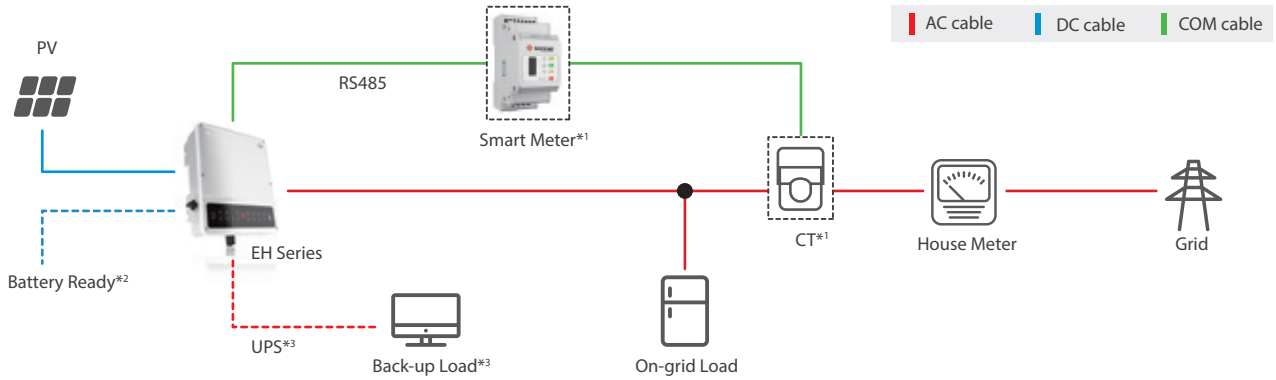
- Start-up Voltage @40V
- Highest Efficiency up to 98.6%
- 92% Up to 92% DC Oversizing
- 10% 10% AC Overloading
- Built-in Export Limit Function
- Compatible with Bifacial Modules

GoodWe Battery Ready Application

EH Series

The GoodWe EH 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 EH system into energy storage system without extra equipment.

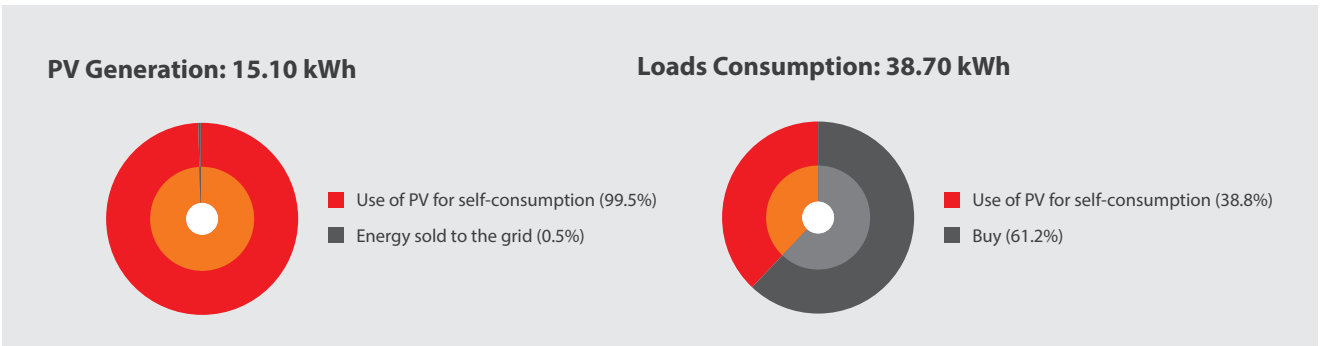
*3 The backup mode is available only after the battery is connected. The backup & UPS functions will be activated once the battery has been installed and connected.

The "Battery Ready" Concept

Integrating the "Battery Ready" concept, the GoodWe EH 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 EH 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 EH 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 EH 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.



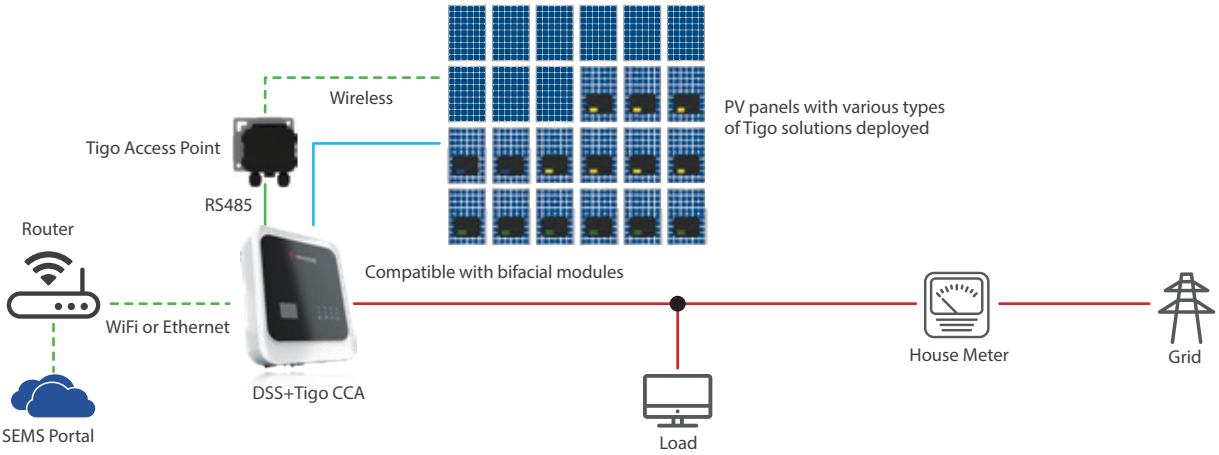
GoodWe Premium Application

DSS Series

The inverter of the GoodWe DSS series, winner of the prestigious Reddot Design Award for its stunning design, is a single-phase on-grid inverter equipped with power limit function and multiple protections, such as AFCI (Arc Failure Circuit Interrupter), connector temperature sensor and DC isolator.

GoodWe DSS + Tigo Solution

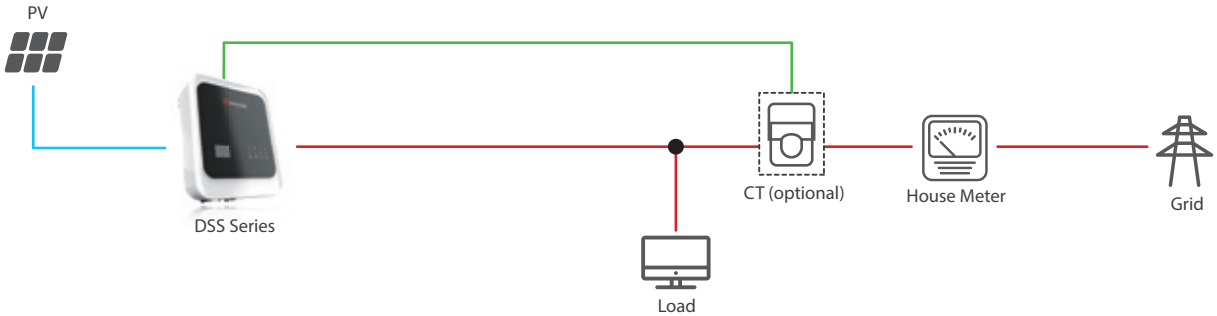
GoodWe's DSS inverter is equipped with Tigo's integrated Cloud Connect Advanced (CCA) and deployed with Tigo's TS4 Platform module-level power electronics. This solution has the ability to establish comprehensive communication with the Tigo Access Point (TAP). This reduces costs of the PV system which 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.
- The maximum DC input current per each string of the DSS inverter is 12.5A. In order to achieve a higher performance, this inverter has been designed to be compatible with bifacial modules.

Zero-export (Optional)

The DSS 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 DSS 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.

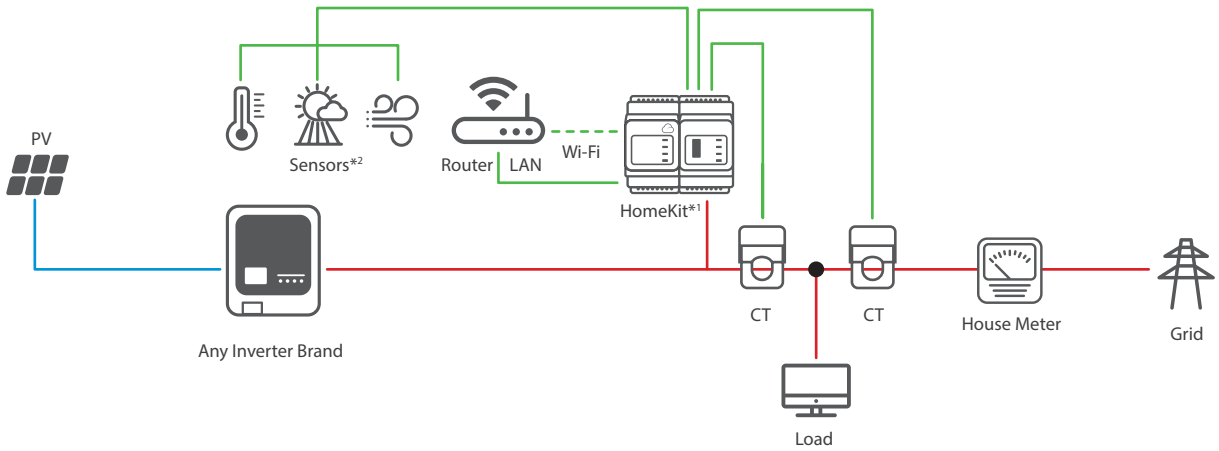
GoodWe HomeKit Application

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.

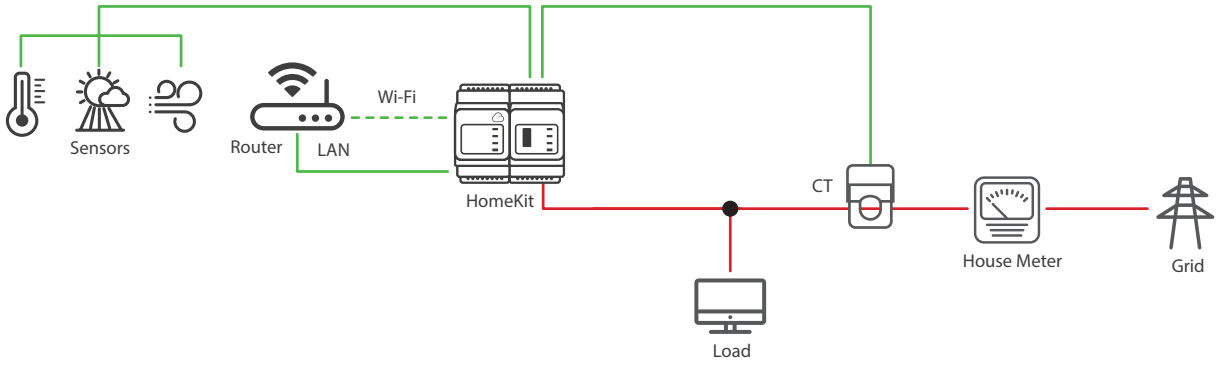


*1 The current version of HomeKit supports single-phase systems. An upgraded version able to support three-phase systems will be available in the near future.

*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 .



EH Series

Dual-MPPT, Single-Phase

Technical Data	GW3600-EH	GW5000-EH	GW6000-EH
Battery Input Data*			
Battery Type	Li-Ion		
Battery Voltage Range(V)	85~450		
Start-up Voltage (V)	90		
Max. Charging/Discharging Current (A)	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		
Nominal DC Input Voltage (V)	380		
Max. Input Current (A)	12.5/12.5		
Max. Short Current (A)	15.2/15.2		
No. of MPP Trackers	2		
No. of Strings per MPP Tracker	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	3600/3960*1	5000/5500*1	6000/6600*1
Max. Apparent Power from Utility Grid (VA)	7200(Charging 3.6kw,backup output 3.6kw)	10000(Charging 5kw,backup output 5kw)	12000(Charging 6kw,backup output 6kw)
Nominal Output Voltage (V)	230	230	230
Nominal Ouput Freqency (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	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Output THDi (@Nominal Output)	<3%		
Back-up 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)	<10		
Nominal Output Voltage (V)	230 (±2%)		
Nominal Ouput Frequency (Hz)	50/60 (±0.2%)		
Output THDv (@Linear Load)	<3%		
Efficiency			
PV Max. Efficiency	97.6%		
PV Europe Efficiency	97.0%		
PV Max. MPPT Efficiency	99.9%		
Battery Charged By PV Max. Efficiency	98.0%		
Battery Charge/discharge From/To AC Max. Efficiency	96.6%		
Protection			
Anti-islanding Protection	Integrated	Integrated	Integrated
Battery Input Reverse Polarity Protection	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated
Grid Output Short Protection	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated
General Data			
Operating Temperature Range (°C)	-35~60		
Relative Humidity	0~95%		
Operating Altitude (m)	4000		
Cooling	Nature Convection		
User Interface	LED & APP		
Communication with BMS	CAN		
Communication with Meter	RS485		
Communicaiton with Portal	Wi-Fi/Ethernet(Optional)		
Weight (kg)	17		
Size (Width*Height*Depth mm)	354*433*147		
Mounting	Wall Bracket		
Protection Degree	IP65		
Standby Self Consumption (W)*3	<10		
Topology	Transformerless		
Certifications & Standards			
Grid Regulation	AS/NZS 4777.2:2015; G98/1; CEI 0-21 VDE4105-AR-N	AS/NZS 4777.2:2015; G99/1; CEI 0-21 VDE4105-AR-N	
Safety Regulation	IEC62109-1&-2		
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29		

*1 For CEI 0-21.
*2 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.
*3 No back-up output.

*: 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		HomeKit
Applications		Household Load Monitoring;
Input Voltage	Rated Voltage	230Vac
	Voltage Range	60Vac~280Vac
	Reference Frequency	50Hz/60Hz
Power Consumption		<8W
Communication		WiFi/LAN
Communication Distance	WiFi	15m(Reference)
	LAN	100m
HMI		3 LED (Power,Pulse,Communication), Reset Button
Mechanical Parameters	Size (L*W*H)	85*72*67mm
	Weight	0.4kg
	IP Rating	IP20
	Installation	Guide
Operating Temperature		-25 ~ +60°C
Storage Temperature		-30 ~ +70°C
Humidity		<95%, No Ion
Altitude		<2000m

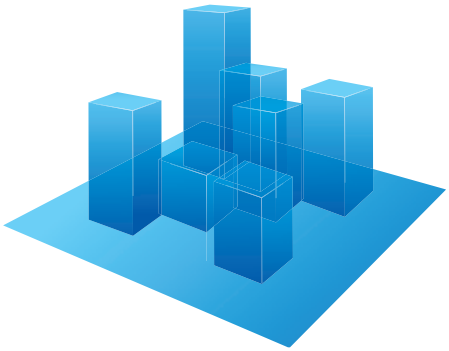
Smart Energy Management System

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.

XS Series

Single MPPT, Single Phase

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
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						
Nominal Output Power (W)	700	1000	1500	2000	2500	3000
Max. Output Apparent Power (VA)	770	1100	1650	2200	2750	3300
Nominal Output Voltage (V)	220/230	220/230	220/230	220/230	220/230	220/230
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 leading to 0.8 lagging)					
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency						
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						
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 (Type III)	Integrated (Type III)	Integrated (Type III)	Integrated (Type III)	Integrated (Type III)	Integrated (Type III)
AC SPD Protection	Integrated (Type III)	Integrated (Type III)	Integrated (Type III)	Integrated (Type III)	Integrated (Type III)	Integrated (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 Convection					
User Interface	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED
Communication	WiFi or LAN	WiFi or LAN	WiFi or LAN	WiFi or LAN	WiFi or LAN	WiFi or LAN
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					
Certifications & Standards						
Grid Regulation	VDE0126-1-1, EN50438 (PL), VDE4105, G98, AS/NZ S4777.2, CEI 0-21, UTE 15-712-1, RD1699+UNE, EN505049-1, IEC61727 IEC62116					
Safety Regulation	IEC62109-1&-2					
EMC	EN61000					

DNS Series

Dual MPPT, Single Phase

Technical Data	GW3000D-NS	GW3600D-NS	GW4200D-NS	GW5000D-NS	GW6000D-NS
PV String Input Data					
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)	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					
Nominal Output Power (W)	3000*[1]	3680*[1]	4200*[1]	5000*[1]	6000*[1]
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 (Adjustable 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
General Data					
Operating Temperature Range (℃)	-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				
Certifications & Standards					
Grid Regulation	VDE-AR-N 4105, VDE0126-1-1, EN50438(PL), EN50438(SW), AS4777.2, G83, IEC61727, IEC62116, CEI 0-21, RD 1699:2011, UNE 206006 IN: 2011, UNE 206007-1 IN: 2013		VDE-AR-N 4105, VDE0126-1-1 EN50438(PL), EN50438(SW), AS4777.2, G59, IEC61727, IEC62116, CEI 0-21, RD 1699:2011 , UNE 206006 IN: 2011 , UNE 206007-1 IN: 2013	VDE-AR-N 4105, VDE0126-1-1, EN50438(PL), EN50438(SW), AS4777.2, G59, IEC61727, MEA, PEA, IEC62116, CEI 0-21, RD 1699:2011 , UNE 206006 IN: 2011 , UNE 206007-1 IN: 2013	VDE-AR-N 4105, VDE0126-1-1, EN50438(PL), EN50438(SW), AS4777.2, G59, IEC61727, MEA, PEA, IEC62116, CEI 0-21
Safety Regulation	IEC62109-1&-2				
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29				

*[1]: 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. For AS4777, Nominal Output Power GW5000D-NS is 4999.

Color Options

DSS Series

Dual-MPPT, Single-Phase

Technical Data	GW3600D-SS	GW4200D-SS	GW5000D-SS
PV String Input Data			
Max. DC Input Power (W)	4680	5500	6500
Max. DC Input Voltage (V)	600	600	600
MPPT Range (V)	80~550	80~550	80~550
Start-up Voltage (V)	80	80	80
Nominal DC Input Voltage (V)	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
No. of MPP Trackers	2	2	2
No. of Input Strings per Tracker	1	1	1
AC Output Data			
Nominal Output Power (W)	3600	4200	5000
Max. Output Apparent Power (VA)	3960	4620	5500
Nominal Output Voltage (V)	220V/230V	220V/230V	220V/230V
Nominal Output Frequency (Hz)	50/60	50/60	50/60
Max. Output Current (A)	18	21	25
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Output THDi (@Nominal Output)	<3%	<3%	<3%
Efficiency			
Max. Efficiency	98.6%	98.6%	98.6%
European Efficiency	>98%	>98%	>98%
Protection			
Anti-islanding Protection	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated
DC SPD Protectioin	Integrated	Integrated	Integrated
AC SPD Protectioin	Integrated	Integrated	Integrated
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)	-25~60	-25~60	-25~60
Relative Humidity	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000
Cooling	Natural Convection		
User Interface	LCD or APP	LCD or APP	LCD or APP
Communication	WiFi	WiFi	WiFi
Weight (kg)	11	11	11
Size (Width*Height*Depth mm)	336*400*124	336*400*124	336*400*124
Protection Degree	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1
Topology	Transformerless		
Certifications & Standards			
Grid Regulation	VDE4105-AR-N; VDE0126-1-1z; AS4777.2; CEI 0-21; RD1699; IEEE1547; ABNT NBR 16149:2013		
Safety Regulation	IEC 62109		
EMC	EN61000		

Color Options

MS Series

Three-MPPT, Single-Phase

Technical Data	GW5000-MS	GW6000-MS	GW7000-MS	GW8500-MS	GW9000-MS	GW10K-MS
PV String Input Data						
Max. DC Input Power (Wp)	10000	12000	13500	13500	13500	13500
Max. DC Input Voltage (V)	600	600	600	600	600	600
MPPT Range (V)	80~550	80~550	80~550	80~550	80~550	80~550
Start-up Voltage (V)	80	80	80	80	80	80
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	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	15/15/15
No. of MPP Trackers	3	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	1/1/1
AC Output Data						
Nominal Output Power (W)	5000	6000	7000	8500	9000	10000
Max. Output Apparent Power (VA)	5500	6600	7700	9350	9900	10000
Nominal Output Voltage (V)	220/230	220/230	220/230	220/230	220/230	220/230
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	25	30	35	42.5	45	45.5
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)					
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency						
Max. Efficiency	97.7%	97.7%	97.7%	97.7%	97.7%	97.7%
European Efficiency	97.3%	97.3%	97.3%	97.3%	97.3%	97.3%
Protection						
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
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 Convection					
User Interface	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED
Communication	RS485, WiFi(optional), LAN(optional)					
Weight (kg)	22.5	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	511*415*175
Protection Degree	IP65	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1	<1
Topology	Transformerless					
Certifications & Standards						
Grid Regulation	AS4777.2,IEEE1547,UL1741,ABNT NBR 16149:2013					
Safety Regulation	IEC62109-1&2					
EMC	EN61000					

SDT G2 Series

Dual-MPPT, Three-Phase

Technical Data	GW4K-DT	GW5K-DT	GW6K-DT	GW8K-DT	GW10KT-DT
PV String Input Data					
Max. DC Input Power (Wp)	6000	7500	9000	12000	15000
Max. DC Input Voltage (V)	1000	1000	1000	1000	1000
MPPT Range (V)	180~850	180~850	180~850	180~850	180~850
Start-up Voltage (V)	160	160	160	160	160
Max. Input Current (A)	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5
Max. Short Current (A)	15.6/15.6	15.6/15.6	15.6/15.6	15.6/15.6	15.6/15.6
No. of MPP Trackers	2	2	2	2	2
No. of Input Strings per MPP Tracker	1/1	1/1	1/1	1/1	1/1
AC Output Data					
Nominal Output Power (W)	4000	5000	6000	8000	10000
Max. Output Apparent Power (VA)	4400	5500	6600	8800	11000
Nominal Output Voltage (V)	400, 3L/N/PE				
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	6.4	8	9.6	12.8	16
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%
Efficiency					
Max. Efficiency	98.2%	98.2%	98.2%	98.2%	98.3%
European Efficiency	>97.6%	>97.6%	>97.6%	>97.6%	>97.7%
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
DC Surge Protection	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)
AC Surge Protection	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)
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
Arc Fault Circuit Interrupter	Optional	Optional	Optional	Optional	Optional
Terminal Temperature Detection	Optional	Optional	Optional	Optional	Optional
General Data					
Operating Temperature Range (°C)	-30~60	-30~60	-30~60	-30~60	-30~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling	Natural Cooling	Natural Cooling	Natural Cooling	Fan Cooling	Fan Cooling
User Interface	LED or LCD	LED or LCD	LED or LCD	LED or LCD	LED or LCD
Communication	WiFi or LAN(Optional)	WiFi or LAN(Optional)	WiFi or LAN(Optional)	WiFi or LAN(Optional)	WiFi or LAN(Optional)
Weight (kg)	15	15	15	16	16
Size (Width*Height*Depth mm)	354*433*147	354*433*147	354*433*147	354*433*155	354*433*155
Protection Degree	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1
Topology	Transformerless				
Certifications & Standards					
Grid Regulation	VDE-AR-N 4105, EN50549/VDE0126-1-1, AS/NZS 4777.2, CEI-021, IEC61727				
Safety Regulation	IEC62109-1&-2				
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29				

Project Cases

6KW | Istanbul, Turkey

8KW | Antonio, Switzerland

4.5KW | Berwickshire, UK

4.5KW | Sao Paulo, Brazil

12KW | Cape Town, South Africa

3KW | Amsterdam, Holland

3.6KW | Melbourne, Australia

10KW | Cape Town, South Africa

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ALL QUALITY MATTERS AWARD

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NO.7
Wood Mackenzie
POWER & RENEWABLES

2018

String
NO.4
3-Phase
IHS Markit

2018

EUPD RESEARCH
TOP BRAND PV
INVERTERS
AUSTRALIA
2019

2017-2019

reddot Design

2018

GOODWE
GOOD CHOICE

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