Official website

Company Wechat

GOODWE
your solar engine

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Hybrid System

Photovoltaic Inverter 1.0-50kW Series

GOODWE
COMPANY PROFILE

GoodWe (Jiangsu) Power Supply Technology Co., Ltd. is a strategic emerging enterprise funded by world renowned electronics industry JXT Group with $20 million capital; it is funded in part by the Chinese government. JXT Group is one of the largest Chinese manufacturers for electronic connector and a significant supplier of Apple and Samsung mobile devices.

It is firmly believed that technology innovation is GoodWe's core competence. With one hundred R&D staff, it offers a full-range of products for residential and commercial systems and secures a stable performance of all products. We have already developed and produced NS, SS, NDS, DS, SD T, DT, ES seven series solar inverters, ranging from 1.0 to 50kW. Also, rich monitoring components completed by wireless and internet monitoring solutions have been provided in order to meet diverse demands of customers. In 2012, GoodWe R&D centre was listed as the key laboratory for grid-connected PV inverter and the talent training base by the Chinese government.

Since its foundation, under the philosophy of 4G---Good Quality, Good Service, Good Value and GoodWe, GoodWe staff continuously bring good products and service as well as good value to global customers. GoodWe solar inverter models of GW4000-SS and GW17K-DT both have achieved “Double A” in PHOTON test. This has led to GoodWe single-phase inverter ranking TOP3 and three-phase inverter ranking TOP5 in the world.

GoodWe has set up an integrated service system for pre-sale, in-sale and after-sale and has established service centres worldwide. The company is devoted to creating a concept of “workshop” which aims to offer global support to all customers including project consulting, technical training, site instruction and after-sale tracking.

GoodWe solar inverters have been largely sold and installed in Germany, Australia, Denmark, the Netherlands and the UK and other locations. The quality and service of GoodWe solar inverters are highly spoken of by its customers worldwide.
In 2012, GoodWe received “The Best Employer” award by the Chinese government.
In 2013, GoodWe was awarded as the High-Tech Enterprise of Jiangsu Province.
In 2014, GoodWe became Jiangsu Renewable Energy Engineering Technology Research Center of On-Grid Inverters.

Core Features

Highly insist on product quality
- Each component comes from industry-leading suppliers
- Each product passes ATS test strictly
- Each product has a report with 10 key performance indexes

Smart design and precise workmanship
- Global internet monitoring system
- 30% lighter compared with similar products

World-class product performance
- 1-5kW products conversion efficiency up to 97.8%
- 9-25kW products conversion efficiency up to 98.2%
- All products' MPPT efficiency up to 99.5%
- Products' THDi less than 1% (SS)

High safety and reliability
- Up to 13 safety measurements
- IP65 anti-dust and water-proof applied
- DC switch
- World-wide certificates (VDE0126-1-1, VDE-AR--N 4105, CE, SAA, G83/2, G59/3, EN50438, CGC, CQC, MEA, PEA…)

NS Series(Single-MPPT, Single-Phase)

GoodWe NS series inverter adopts cutting-edge technology in photovoltaic fields, designed under modern industrial concept. Inheriting all the excellent traits from GoodWe SS and DS series, the NS series is much smarter in size and weight. It makes the series convenient for transport and suitable for different installation environments. Comprehensive MPPT technology, software and hardware technology is guaranteed to maximize the life-span of these inverters.

- Up to 10 safety measurements
- DC switch
- IP65 dust-proof and water-proof
- 45℃ full-load output
- Lower start-up voltage at 80V
- Wide range of MPPT voltage
- Wireless monitoring and communication
- Fanless low-noise design
- 30% lighter than similar products
- 20% Volume optimization
- Perfect for 3-panel system

Technical Data

	GW1000-NS	GW1500-NS	GW2000-NS	GW2500-NS	GW3000-NS
DC Input Data					
Max. DC power [W]	1200	1800	2300	2700	3200
Max. DC voltage [V]	450	450	450	500	500
MPPT voltage range [V]	80~400	80~400	80~400	80~450	80~450
Starting voltage [V]	80	80	80	80	80
Max. DC current [A]	10	10	10	18	18
No. of DC connectors	1	1	1	1/2 (optional)	1/2 (optional)
No. of MPPTs	1	1	1	1	1
DC connector	AMPHENOL/ MC4/ SUNCLIX			AMPHENOL/ MC4/ SUNCLIX	
AC Output Data					
Norminal AC power [W]	1000	1500	2000	2500	3000
Max. AC power [W]	1000	1500	2000	2500	3000
Max. AC current [A]	5	7. 5	10	12. 5	13. 5
Norminal AC output	50/60Hz; 230Vac			50/60Hz; 230Vac	
AC output range	45~55Hz/55~65Hz; 180~270Vac			45~55Hz/55~65Hz; 180~270Vac	
THDi	<3%			<3%	
Power factor	0.9 leading~0.9 lagging			0.9 leading~0.9 lagging	
Grid connection	Single phase	Single phase	Single phase	Single phase	Single phase
Efficiency					
Max. efficiency	96.5%	97.0%	97.0%	97.5%	97.5%
Euro efficiency	>96.0%	>96.0%	>96.0%	>97.0%	>97.0%
MPPT adaptation efficiency	99.9%	99.9%	99.9%	99.9%	99.9%
Protection					
Residual current monitoring unit	Integrated			Integrated	
Anti-islanding protection	Integrated			Integrated	
DC switch	Integrated (optional)			Integrated (optional)	
AC over current protection	Integrated			Integrated	
Insulation monitoring	Integrated			Integrated	
Certifications & Standards					
Grid regulation	G83/2, VDE0126-1-1, AS4777.2&.3, EN50438, ERDF-NOI-RES_13E;			G83/2, VDE0126-1-1, AS4777.2&.3, EN50438, ERDF-NOI-RES_13E;	
Safety	According to IEC62109-1&-2, AS3100			According to IEC62109-1&-2, AS3100	
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3			EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3	
General Data					
Dimensions (WxHxD)	344*274.5*128mm			344*274.5*128mm	
Weight [kg]	7.5			8.5	
Mounting	Wall bracket			Wall bracket	
Ambient temperature range	-25~60°C (> 45°C derating)			-25~60°C (> 45°C derating)	
Relative humidity	0~95%			0~95%	
Max. operating altitude	3000			3000	
Protection degree	IP65			IP65	
Topology	Transformerless			Transformerless	
Night power consumption [W]	<1			<1	
Cooling	Nature convection			Nature convection	
Noise emision [dB]	<25			<25	
Display	LCD			LCD	
Communication	USB2.0; WiFi or RS485			USB2.0; WiFi or RS485	
Standard warranty [years]	5/10/15/20/25 (optional)			5/10/15/20/25 (optional)	

SS Series(Single-MPPT, Single-Phase)

GoodWe SS series inverter is designed with modern ID concept. It is widely and flexibly used in residential rooftop units because of its wide range of input voltage. It features very high conversion efficiency and reliability. SS series provides long-term and stable generating benefits. The powerful, intelligent, user-friendly interface and smart design makes it most suitable for residential applications.

- Maximum Efficiency up to 97.8%
- European Efficiency up to 97.4%
- MPPT Efficiency up to 99.9%
- THDi less than 1%
- Up to 10 safety measurements
- DC switch
- IP65 dust-proof and water-proof
- 45℃ full-load output
- Wide range of MPPT voltage
- User-friendly Large LCD
- Wireless monitoring and communication
- Fanless low-noise design

Technical Data	GW4000-SS	GW4600-SS
DC Input Data		
Max. DC power [W]	4600	5400
Max. DC voltage [V]	580	580
MPPT voltage range [V]	125~550	125~550
Starting voltage [V]	125	125
Max. DC current [A]	20	20
No. of DC connectors	2	2
No. of MPPTs	1	1
DC connector	AMPHENOL/ MC4/ SUNCLIX	AMPHENOL/ MC4/ SUNCLIX
AC Output Data		
Norminal AC power [W]	4000	4600
Max. AC power [W]	4400	5100
Max. AC current [A]	22	25
Norminal AC output	50/60Hz; 230Vac	50/60Hz; 230Vac
AC output range	45~55Hz/55~65Hz; 180~270Vac	45~55Hz/55~65Hz; 180~270Vac
THDi	<1%	<1%
Power factor	0.9 leading~0.9 lagging	0.9 leading~0.9 lagging
Grid connection	Single phase	Single phase
Efficiency		
Max. efficiency	97.8%	97.8%
Euro efficiency	>97. 4%	>97. 4%
MPPT adaptation efficiency	99.9%	99.9%
Protection		
Residual current monitoring unit	Integrated	Integrated
Anti-islanding protection	Integrated	Integrated
DC switch	Integrated (optional)	Integrated (optional)
AC over current protection	Integrated	Integrated
Insulation monitoring	Integrated	Integrated
Certifications & Standards		
Grid regulation	VDE-AR-N 4105, AS4777.2/.3, G59/3, VDE0126-1-1, EN50438, NRS097-2-1	VDE-AR-N 4105, AS4777.2/.3, G59/3, VDE0126-1-1, EN50438, NRS097-2-1
Safety	According to IEC62109-1&-2, AS3100	According to IEC62109-1&-2, AS3100
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-11, EN 61000-3-12	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-11, EN 61000-3-12
General Data		
Dimensions (WxHxD)	390*417*142mm	390*417*142mm
Weight [kg]	18	18
Mounting	Wall bracket	Wall bracket
Ambient temperature range	-25~60°C (> 45°C derating)	-25~60°C (> 45°C derating)
Relative humidity	0~95%	0~95%
Max. operating altitude	3000	3000
Protection degree	IP65	IP65
Topology	Transformerless	Transformerless
Night power consumption [W]	<1	<1
Cooling	Nature convection	Nature convection
Noise emision [dB]	<25	<25
Display	4.0" LCD	4.0" LCD
Communication	USB2.0; RS485 or WiFi	USB2.0; RS485 or WiFi
Standard warranty [years]	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)

SS Series(Single-MPPT, Single-Phase)

GW3600S-UK photovoltaic inverter is suitable for home rooftop photovoltaic systems, designed with modern industrial concept. It is designed in strict accordance with the provisions of G83 security regulations. The DCI is less than 20mA and maximum output current is 16A.This model is specially designed for the UK market.

GW3600S-DK and GW3600S-NL are specially designed for the Denmark and Netherlands market. The output current is limited within 16A. The inverter can allow customer to get the maximum benefit within the limitation. With state-of-the-art control technology, it has extremely high conversion efficiency, ultra-low THDi and wide range of input voltage and current. It has a smaller size, lighter weight and wider range of suitability to various photovoltaic modules.

- Maximum Efficiency up to 97.8%
- European Efficiency up to 97.4%
- MPPT Efficiency up to 99.9%
- THDi less than 1%
- Up to 10 safety measurements
- DC switch
- IP65 anti-dust and water-proof
- 45°C full-load output
- Wide range of MPPT voltage
- User-friendly Large LCD
- Wireless monitoring and communication
- Fanless low-noise design

Technical Data	GW3600S-UK	GW3600S-DK
DC Input Data		
Max. DC power [W]	4200	4200
Max. DC voltage [V]	580	580
MPPT voltage range [V]	125~550	125~550
Starting voltage [V]	125	125
Max. DC current [A]	20	20
No. of DC connectors	2	2
No. of MPPTs	1	1
DC connector	AMPHENOL/ MC4/ SUNCLIX	AMPHENOL/ MC4/ SUNCLIX
AC Output Data		
Norminal AC power [W]	3600	3600
Max. AC power [W]	4000	4000
Max. AC current [A]	16	16
Norminal AC output	50/60Hz; 230Vac	50/60Hz; 230Vac
AC output range	45~55Hz/55~65Hz; 180~270Vac	45~55Hz/55~65Hz; 180~270Vac
THDi	<1%	<1%
Power factor	0.9 leading~0.9 lagging	0.9 leading~0.9 lagging
Grid connection	Single phase	Single phase
Efficiency		
Max. efficiency	97.8%	97.8%
Euro efficiency	>97.4%	>97.4%
MPPT adaptation efficiency	99.9%	99.9%
Protection		
Residual current monitoring unit	Integrated	Integrated
Anti-islanding protection	Integrated	Integrated
DC switch	Integrated (optional)	Integrated (optional)
AC over current protection	Integrated	Integrated
Insulation monitoring	Integrated	Integrated
Certifications & Standards		
Grid regulation	VDE0126-1-1, G83/2	VDE-AR-N 4105, VDE0126-1-1, G83/2
Safety	According to IEC62109-1, AS3100	According to IEC62109-1, AS3100
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3
General Data		
Dimensions (WxHxD)	390*417*142mm	390*417*142mm
Weight [kg]	18	18
Mounting	Wall bracket	Wall bracket
Ambient temperature range	-25~60°C (> 45°C derating)	-25~60°C (> 45°C derating)
Relative humidity	0~95%	0~95%
Max. operating altitude	3000	3000
Protection degree	IP65	IP65
Topology	Transformerless	Transformerless
Night power consumption [W]	<1	<1
Cooling	Nature convection	Nature convection
Noise emision [dB]	<25	<25
Display	4.0" LCD	4.0" LCD
Communication	USB2.0; RS485 or WiFi	USB2.0; RS485 or WiFi
Standard warranty [years]	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)

NDS Series(Dual-MPPT, Single-Phase)

GoodWe NDS series inverter adopts cutting-edge technology in photovoltaic fields, designed under modern industrial concept. Inheriting all the excellent traits from GoodWe SS and DS series, the NDS series is much smarter in size and weight. Excellent cooling design, comprehensive software and hardware technology is guaranteed to maximize the life-span of these inverters.

- Up to 10 safety measurements
- DC switch
- IP65 dust-proof and water-proof
- 45℃ full-load output
- Built-in anti-reverse function
- 30% lighter than similar products
- 20% Volume optimization
- Wide range of MPPT voltage
- Multiple monitoring and communication
- Fanless low-noise design
- 4 inch large LCD

Technical Data	GW3000N-DS	GW3600N-DS	GW4200N-DS	GW5000N-DS
DC Input Data				
Max. DC power [W]	3300	3960	4600	5500
Max. DC voltage [V]	580	580	580	580
MPPT voltage range [V]	80~550	125~550	125~550	125~550
Starting voltage [V]	120	120	120	120
Max. DC current [A]	11/11	11/11	11/11	11/11
No. of DC connectors	2	2	2	2
No. of MPPTs	2 (can parallel)	2 (can parallel)	2 (can parallel)	2 (can parallel)
DC connector	AMPHENOL/ MC4/ SUNCLIX	AMPHENOL/ MC4/ SUNCLIX	AMPHENOL/ MC4/ SUNCLIX	AMPHENOL/ MC4/ SUNCLIX
AC Output Data				
Norminal AC power [W]	3000	3680	4200	5000*
Max. AC power [W]	3000	3680	4200	5000*
Max. AC current [A]	13.6	16	19	22.8
Norminal AC output	50/60Hz; 230Vac		50/60Hz; 230Vac	
AC output range	45~55Hz/55~65Hz; 180~270Vac		45~55Hz/55~65Hz; 180~270Vac	
THDi	<3%		<3%	
Power factor	0.8 leading~0.8 lagging		0.8 leading~0.8 lagging	
Grid connection	Single phase		Single phase	
Efficiency				
Max. efficiency	97.6%	97.6%	97.6%	97.6%
Euro efficiency	>97.4%	>97.4%	>97.4%	>97.4%
MPPT adaptation efficiency	99.9%	99.9%	99.9%	99.9%
Protection				
Residual current monitoring unit	Integrated	Integrated	Integrated	Integrated
Anti-islanding protection	Integrated	Integrated	Integrated	Integrated
DC switch	Integrated (optional)	Integrated (optional)	Integrated (optional)	Integrated (optional)
AC over current protection	Integrated	Integrated	Integrated	Integrated
Insulation monitoring	Integrated	Integrated	Integrated	Integrated
Certifications & Standards				
Grid regulation	VDE-AR-N 4105, EN50438, VDE0126-1-1, AS4777.2&.3, G83/G59	VDE-AR-N 4105, G83/G59, VDE0126-1-1, EN50438, AS4777.2&.3, MEA,PEA	VDE-AR-N 4105, EN50438, VDE0126-1-1, AS4777.2&.3, G83/G59	VDE-AR-N 4105, EN50438, VDE0126-1-1, G83/G59, AS4777.2&.3 , MEA, PEA
Safety	IEC62109-1&-2, AS3100			
EMC	IEC/EN 61000-6-1,IEC/EN 61000-6-2,IEC/EN 61000-6-3,IEC/EN 61000-6-4,IEC/EN 61000-3-11, IEC/EN 61000-3-12			
General Data				
Dimensions (WxHxD)	386*350*120	386*350*120	386*350*120	386*350*120
Weight [kg]	15	15	15	15
Mounting	Wall bracket	Wall bracket	Wall bracket	Wall bracket
Ambient temperature range	-25~60°C (>45°C derating)	-25~60°C (>45°C derating)	-25~60°C (>45°C derating)	-25~60°C (>45°C derating)
Relative humidity	0~95%	0~95%	0~95%	0~95%
Max. operating altitude	3000m	3000m	3000m	3000m
Protection degree	IP65	IP65	IP65	IP65
Topology	Transformerless	Transformerless	Transformerless	Transformerless
Night power consumption [W]	<1	<1	<1	<1
Cooling	Nature convection	Nature convection	Nature convection	Nature convection
Noise emision [dB]	<25	<25	<25	<25
Display	4.0" LCD	4.0" LCD	4.0" LCD	4.0" LCD
Communication	USB2.0; RS485 or WiFi	USB2.0; RS485 or WiFi	USB2.0; RS485 or WiFi	USB2.0; RS485 or WiFi
Standard warranty [years]	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)

*Note：4600W for VDE-AR-N4105

DS Series(Dual-MPPT, Single-Phase)

GoodWe DS series inverter is designed with modern ID concept. It has created a new standard for inverter technology with more advanced reactive compensation technology and dual MPPTs. The new series has a wide range of domestic applications. Aside from being compatible with different types of solar panel brands, it also meets the demands of easy installation and simple operation for indoor and outdoor use. Despite the fact that its weight is super light, it meets the IP65 protective class. Our unique dual MPPTs and low THDi makes the DS series the best choice for users to build up perfect photovoltaic systems.

- Dual MPP trackers to suit two-side roof
- Maximum Efficiency up to 97.8%
- European Efficiency up to 97.4%
- MPPT Efficiency up to 99.9%
- Up to 10 safety measurements
- DC switch
- IP65 dust-proof and water-proof rating
- 45℃ full-load output
- Wide range of MPPT voltage
- User-friendly Large LCD
- Wireless monitoring and communication
- Fanless low-noise design

Technical Data	GW3600-DS	GW4200-DS	GW4600-DS
DC Input Data			
Max. DC power [W]	3800	4600	5400
Max. DC voltage [V]	580	580	580
MPPT voltage range [V]	125~550	125~550	125~550
Starting voltage [V]	125	125	125
Max. DC current [A]	10/10	15/15	15/15
No. of DC connectors	2	2	2
No. of MPPTs	2 (can parallel)	2 (can parallel)	2 (can parallel)
DC connector	AMPHENOL/ MC4/ SUNCLIX	AMPHENOL/ MC4/ SUNCLIX	AMPHENOL/ MC4/ SUNCLIX
AC Output Data			
Norminal AC power [W]	3600	4200	4600
Max. AC power [W]	3600	4400	5100
Max. AC current [A]	18	21	25
Norminal AC output	50/60Hz; 230Vac	50/60Hz; 230Vac	50/60Hz; 230Vac
AC output range	45~55Hz/55~65Hz; 180~270Vac	45~55Hz/55~65Hz; 180~270Vac	45~55Hz/55~65Hz; 180~270Vac
THDi	<1.5%	<1.5%	<1.5%
Power factor	0.9 leading~0.9 lagging	0.9 leading~0.9 lagging	0.9 leading~0.9 lagging
Grid connection	Single phase	Single phase	Single phase
Efficiency			
Max. efficiency	97.6%	97.8%	97.8%
Euro efficiency	>97%	>97.4%	>97.4%
MPPT adaptation efficiency	99.9%	99.9%	99.9%
Protection			
Residual current monitoring unit	Integrated	Integrated	Integrated
Anti-islanding protection	Integrated	Integrated	Integrated
DC switch	Integrated (optional)	Integrated (optional)	Integrated (optional)
AC over current protection	Integrated	Integrated	Integrated
Insulation monitoring	Integrated	Integrated	Integrated
Certifications & Standards			
Grid regulation	VDE-AR-N 4105, AS4777.2&.3, G59/3, VDE0126-1-1, EN50438, ERDF-NOI-RES_13E;	VDE-AR-N 4105, AS4777.2&.3, G59/3, VDE0126-1-1, EN50438, ERDF-NOI-RES_13E;	VDE-AR-N 4105, AS4777.2&.3, G59/3, VDE0126-1-1, EN50438, ERDF-NOI-RES_13E, MEA, PEA;
Safety	IEC62109-1&-2, AS3100	IEC62109-1&-2, AS3100	IEC62109-1&-2
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-11, EN 61000-3-12		
General Data			
Dimensions (WxHxD)	390*417*165mm	390*417*165mm	390*417*165mm
Weight [kg]	20	20	20
Mounting	Wall bracket	Wall bracket	Wall bracket
Ambient temperature range	-25~60°C (>45°C derating)	-25~60°C (>45°C derating)	-25~60°C (>45°C derating)
Relative humidity	0~95%	0~95%	0~95%
Max. operating altitude	3000m	3000m	3000m
Protection degree	IP65	IP65	IP65
Topology	Transformerless	Transformerless	Transformerless
Night power consumption [W]	<1	<1	<1
Cooling	Nature convection	Nature convection	Nature convection
Noise emision [dB]	<25	<25	<25
Display	4.0" LCD	4.0" LCD	4.0" LCD
Communication	USB2.0; RS485 or WiFi	USB2.0; RS485 or WiFi	USB2.0; RS485 or WiFi
Standard warranty [years]	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)

DS Series(Dual-MPPT, Single-Phase)

GW3600D-UK photovoltaic inverter is suitable for home rooftop photovoltaic systems, designed with modern industrial concept. It is designed in strict accordance with the provisions of G83 security regulations. The DCI is less than 20mA and maximum output current is 16A.This model is specially designed for the UK market.

GW3600D-DK and GW3600D-NL are specially designed for the Denmark and Netherlands market. The output current is limited within 16A. The inverter can allow customer to get the maximum benefit within the limitation. With state-of-the-art control technology, it has extremely high conversion efficiency, ultra-low THDi and wide range of input voltage and current. It has a smaller size, lighter weight and wider range of suitability to various photovoltaic modules.

- Maximum Efficiency up to 97.6%
- European Efficiency up to 97.4%
- MPPT Efficiency up to 99.9%
- Up to 10 safety measurements
- DC switch disconnector
- IP65 dust-proof and water-proof
- 45°C full-load output
- Wide range of MPPT voltage
- User-friendly Large LCD
- Wireless monitoring and communication
- Fanless low-noise design

Technical Data	GW3600D-DK	GW3600D-UK
DC Input Data		
Max. DC power [W]	4200	4200
Max. DC voltage [V]	580	580
MPPT voltage range [V]	125~550	125~550
Starting voltage [V]	125	125
Max. DC current [A]	10/10	10/10
No. of DC connectors	2	2
No. of MPPTs	2 (can parallel)	2 (can parallel)
DC connector	AMPHENOL/ MC4/ SUNCLIX	AMPHENOL/ MC4/ SUNCLIX
AC Output Data		
Norminal AC power [W]	3600	3600
Max. AC power [W]	4000	4000
Max. AC current [A]	16	16
Norminal AC output	50/60Hz; 230Vac	50/60Hz; 230Vac
AC output range	45~55Hz/55~65Hz; 180~270Vac	45~55Hz/55~65Hz; 180~270Vac
THDi	<1.5%	<1.5%
Power factor	0.9 leading~0.9 lagging	0.9 leading~0.9 lagging
Grid connection	Single phase	Single phase
Efficiency		
Max. efficiency	97.6%	97.6%
Euro efficiency	>97.4%	>97.4%
MPPT adaptation efficiency	99.9%	99.9%
Protection		
Residual current monitoring unit	Integrated	Integrated
Anti-islanding protection	Integrated	Integrated
DC switch	Integrated (optional)	Integrated (optional)
AC over current protection	Integrated	Integrated
Insulation monitoring	Integrated	Integrated
Certifications & Standards		
Grid regulation	VDE0126-1-1, G83/2, VDE-AR-N4105	G83/2
Safety	IEC62109-1&-2	IEC62109-1&-2
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-11, EN 61000-3-12	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-11, EN 61000-3-12
General Data		
Dimensions (WxHxD)	390*417*165mm	390*417*165mm
Weight [kg]	20	20
Mounting	Wall bracket	Wall bracket
Ambient temperature range	-25~60°C (>45°C derating)	-25~60°C (>45°C derating)
Relative humidity	0~95%	0~95%
Max. operating altitude	3000m	3000m
Protection degree	IP65	IP65
Topology	Transformerless	Transformerless
Night power consumption [W]	<1	<1
Cooling	Nature convection	Nature convection
Noise emision [dB]	<25	<25
Display	4.0" LCD	4.0" LCD
Communication	USB2.0; RS485 or WiFi	USB2.0; RS485 or WiFi
Standard warranty [years]	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)

Smart DT Series(Dual-MPPT, Three-Phase)

GoodWe smart DT series inverter is typically designed for the home solar systems, covering 4kW/5kW/6kW.By adopting cutting-edge technology of photovoltaic field, it provides three phase AC output, making home system connection well balanced , safer and more convenient. The integrated two MPPTs allow two-array inputs from different roof orientations. And the combination of both RS485 and Wi-Fi communication makes the system well interactive and extremely easy to monitor.

- Maximum Efficiency up to 97.8%
- European Efficiency up to 96.7%
- MPPT Efficiency up to 99.9%
- DC switch
- IP65 dust-proof and water-proof
- 45°C full-load output
- Super large 5-inch LCD
- Lighter than similar products
- Multiple monitoring and communication
- Up to 80 pieces can be integrated in one system

Technical Data	GW4000-DT	GW5000-DT	GW6000-DT
DC Input Data			
Max. DC power [W]	4200	5200	6200
Max. DC voltage [V]	1000	1000	1000
MPPT voltage range [V]	200~800	200~800	200~800
Starting voltage [V]	180	180	180
Max. DC current [A]	11/11	11/11	11/11
No. of DC connectors	2	2	2
No. of MPPTs	2 (can parallel)	2 (can parallel)	2 (can parallel)
DC connector	AMPHENOL/ MC4/ SUNCLIX	AMPHENOL/ MC4/ SUNCLIX	AMPHENOL/ MC4/ SUNCLIX
AC Output Data			
Norminal AC power [W]	4000	5000	6000
Max. AC power [W]	4000	5000	6000
Max. AC current [A]	7	8.5	10
Norminal AC output	50/60Hz; 400Vac	50/60Hz; 400Vac	50/60Hz; 400Vac
AC output range	45~55Hz/55~65Hz; 310~480Vac	45~55Hz/55~65Hz; 310~480Vac	45~55Hz/55~65Hz; 310~480Vac
THDi	<1.5%	<1.5%	<1.5%
Power factor	0.9 leading~0.9 lagging	0.9 leading~0.9 lagging	0.90 leading~0.9 lagging
Grid connection	3W/N/PE	3W/N/PE	3W/N/PE
Efficiency			
Max. efficiency	97.8%	97.8%	97.8%
Euro efficiency	>96.7%	>96.7%	>96.7%
MPPT adaptation efficiency	99.9%	99.9%	99.9%
Protection			
Residual current monitoring unit	Integrated	Integrated	Integrated
Anti-islanding protection	Integrated	Integrated	Integrated
DC switch	Integrated (optional)	Integrated (optional)	Integrated (optional)
AC over current protection	Integrated	Integrated	Integrated
Insulation monitoring	Integrated	Integrated	Integrated
Certifications & Standards			
Grid regulation	VDE-AR-N 4105, AS4777.2/.3, ERDF-NOI-RES_13E; VDE0126-1-1, EN50438		
Safety	IEC62109-1&-2, AS3100		
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3		
General Data			
Dimensions (WxHxD)	516*474*192mm	516*474*192mm	516*474*192mm
Weight [kg]	24	24	24
Mounting	Wall bracket	Wall bracket	Wall bracket
Ambient temperature range	-25~60°C (>45°C derating)	-25~60°C (>45°C derating)	-25~60°C (>45°C derating)
Relative humidity	0~95%	0~95%	0~95%
Max. operating altitude	3000m	3000m	3000m
Protection degree	IP65	IP65	IP65
Topology	Transformerless	Transformerless	Transformerless
Night power consumption [W]	<1	<1	<1
Cooling	Nature Convection	Nature Convection	Nature Convection
Noise emision [dB]	<30	<30	<30
Display	5.0" LCD	5.0" LCD	5.0" LCD
Communication	USB2.0; RS485 or WiFi	USB2.0; RS485 or WiFi	USB2.0; RS485 or WiFi
Standard warranty [years]	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)

Smart DT Series (Australia)

GoodWe smart DT series inverter is typically designed for the home solar systems, covering 4KW/5KW/6KW. By adopting cutting-edge technology of photovoltaic field, it provides three phase AC output, making home system connection well balanced, safer and more convenient. The integrated two MPPTs allow two-array inputs from different roof orientations. And the combination of both RS485 and Wi-Fi communication makes the system well interactive and extremely easy to monitor.

- Maximum Efficiency up to 96.8%
- European Efficiency up to 96.7%
- MPPT Efficiency up to 99.9%
- IP65 dust-proof and water-proof
- 45°C full-load output
- Lighter than similar products
- Multiple monitoring and communication
- Up to 80 pieces can be integrated in one system

Technical Data	GW4000L-DT	GW5000L-DT	GW6000L-DT
DC Input Data			
Max. DC power [W]	4200	5200	6200
Max. DC voltage [V]	600	600	600
MPPT voltage range [V]	200~550	200~550	200~550
Starting voltage [V]	180	180	180
Max. DC current [A]	11/11	11/11	11/11
No. of DC connectors	2	2	2
No. of MPPTs	2 (can parallel)	2 (can parallel)	2 (can parallel)
DC connector	AMPHENOL/ MC4/ SUNCLIX	AMPHENOL/ MC4/ SUNCLIX	AMPHENOL/ MC4/ SUNCLIX
AC Output Data			
Norminal AC power [W]	4000	5000	6000
Max. AC power [W]	4000	5000	6000
Max. AC current [A]	7	8.5	10
Norminal AC output	50/60Hz; 400Vac	50/60Hz; 400Vac	50/60Hz; 400Vac
AC output range	45~55Hz/55~65Hz; 310~480Vac	45~55Hz/55~65Hz; 310~480Vac	45~55Hz/55~65Hz; 310~480Vac
THDi	<1.5%	<1.5%	<1.5%
Power factor	0.9 leading~0.9 lagging	0.9 leading~0.9 lagging	0.9 leading~0.9 lagging
Grid connection	3W/N/PE	3W/N/PE	3W/N/PE
Efficiency			
Max. efficiency	96.8%	96.8%	96.8%
Euro efficiency	>95.5%	>95.5%	>95.5%
MPPT adaptation efficiency	99.9%	99.9%	99.9%
Protection			
Residual current monitoring unit	Integrated	Integrated	Integrated
Anti-islanding protection	Integrated	Integrated	Integrated
DC switch	Integrated (optional)	Integrated (optional)	Integrated (optional)
AC over current protection	Integrated	Integrated	Integrated
Insulation monitoring	Integrated	Integrated	Integrated
Certifications&Standards			
Grid regulation	AS4777.2/.3, G83/2, EN50438	AS4777.2/.3, G83/2, EN50438	AS4777.2/.3, G83/2, EN50438
Safety	IEC62109-1&-2, AS3100	IEC62109-1&-2, AS3100	IEC62109-1&-2, AS3100
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3		
General Data			
Dimensions (WxHxD)	516*474*192mm	516*474*192mm	516*474*192mm
Weight [kg]	24	24	24
Mounting	Wall bracket	Wall bracket	Wall bracket
Ambient temperature range	-25~60°C (>45°C derating)	-25~60°C (>45°C derating)	-25~60°C (>45°C derating)
Relative humidity	0~95%	0~95%	0~95%
Max. operating altitude	3000m	3000m	3000m
Protection degree	IP65	IP65	IP65
Topology	Transformerless	Transformerless	Transformerless
Night power consumption [W]	<1	<1	<1
Cooling	Nature Convection	Nature Convection	Nature Convection
Noise emision [dB]	<30	<30	<30
Display	5.0" LCD	5.0" LCD	5.0" LCD
Communication	USB2.0; RS485 or WiFi	USB2.0; RS485 or WiFi	USB2.0; RS485 or WiFi
Standard warranty [years]	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)

DT Series(Dual-MPPT, Three-Phase)

GoodWe DT series inverter adopts cutting-edge technology in photovoltaic fields. Higher conversion efficiency and lower energy losses are guaranteed to maximize customer satisfaction. With its reliable power grid support management and high protective class, the DT series is compatible with different types of branded solar panels and is also ideal for commercial rooftop systems. This safe and reliable series is the first choice for residential, commercial installations and power plants.

- Maximum Efficiency up to 98.5%
- European Efficiency up to 98.1%
- MPPT Efficiency up to 99.9%
- DC switch
- IP65 dust-proof and water-proof rating
- 45℃ full-load output
- Super large 5-inch LCD
- 30% lighter than similar products
- Multiple monitoring and communication
- up to 80 pieces can be integrated in one system

Technical Data	GW09K-DT	GW10K-DT	GW12K-DT	GW15K-DT	GW17K-DT	GW20K-DT	GW25K-DT
DC Input Data							
Max. DC power [W]	9200	10200	12300	15400	17500	20500	25800
Max. DC voltage [V]	1000	1000	1000	1000	1000	1000	1000
MPPT voltage range [V]	260~850	260~850	260~850	260~850	260~850	260~850	260~850
Starting voltage [V]	250	250	250	250	250	250	250
Max. DC current [A]	22/11	22/11	22/11	22/22	22/22	22/22	27/27
No. of DC connectors	3	3	3	4	4	4	6
No. of MPPTs	2	2	2	2 (can parallel)	2 (can parallel)	2 (can parallel)	2 (can parallel)
DC connector	AMPHENOL/ MC4/ SUNCLIX						
AC Output Data							
Norminal AC power [W]	9000	10000	12000	15000	17000	20000	25000
Max. AC power [W]	9000	10000	12000	15000	17000	20000	25000
Max. AC current [A]	15	17	19	25	25	30	37
Norminal AC output	50/60Hz; 400Vac						
AC output range	45~55Hz/55~65Hz; 310~480Vac						
THDi	<1.5%						
Power factor	0.9 leading~0.9 lagging						
Grid connection	3W/N/PE						
Efficiency							
Max. efficiency	98.0%	98.0%	98.0%	98.2%	98.2%	98.4%	98.5%
Euro efficiency	>97.7%	>97.7%	>97.7%	>97.7%	>97.7%	>98.1%	>98.1%
MPPT adaptation efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Protection							
Residual current monitoring unit	Integrated						
Anti-islanding protection	Integrated						
DC switch	Integrated (optional)						
AC over current protection	Integrated						
Insulation monitoring	Integrated						
Certifications & Standards							
Grid regulation	VDE0126-1-1, G83/2, ERDF-NOI-RES_13E	VDE-AR-N 4105, AS4777.2/.3, VDE0126-1-1, MEA&PEA, G59/3, NRS097-2-1, IEC61727, EN50438 ERDF-NOI-RES_13E	VDE-AR-N4105, AS4777.2/.3, IEC61727, VDE0126-1-1, EN50438, NRS097-2-1, G59/3, ERDF-NOI-RES_13E;		AS4777.2/.3, VDE-AR-N 4105, VDE0126-1-1, MEA&PEA, G59/3, NRS097-2-1, IEC61727, EN50438 ERDF-NOI-RES_13E	VDE-AR-N 4105, IEC61727, VDE0126-1-1, EN50438, G59/3;	
Safety	IEC62109-1&-2, AS3100					IEC62109-1&-2	
EMC	EN 61000-6-1,EN 61000-6-2,EN 61000-6-3,EN 61000-6-4, EN 61000-3-11, EN 61000-3-12						
General Data							
Dimensions (WxHxD)	516*650*203mm						
Weight [kg]	39						41
Mounting	Wall bracket						
Ambient temperature range	-25~60°C (>45°C derating)						
Relative humidity	0~95%						
Max. operating altitude	3000m						
Protection degree	IP65						
Topology	Transformerless						
Night power consumption [W]	<1						
Cooling	Fan cooling						
Noise emision [dB]	<45						
Display	5.0" LCD						
Communication	USB2.0; RS485 or WiFi						
Standard warranty [years]	5/10/15/20/25 (optional)						

ES Series

GoodWe ES series bi-directional energy-storage inverter is applicable to both on-grid and off-grid PV systems. It can control the flow of energy intelligently. During the daytime, the PV plant generates electricity which can be provided to the loads, fed into the grid or charge the battery. The electricity stored can be released when the loads require it during the night. Additionally, the power grid can also charge the storage devices via the inverter.

- Future conception for Solar
- Charge controller and inverter integrated
- Intelligent battery management function
- Capable of being grid-interactive or grid-independent
- Compatible with both Lead-acid and Li-Ion battery
- More security & performance for same costs
- IP65 dust-proof and water-proof rating
- 45°C full-load output
- Monitoring inverters freely via computers or moblie phones
- Fanless low-noise design

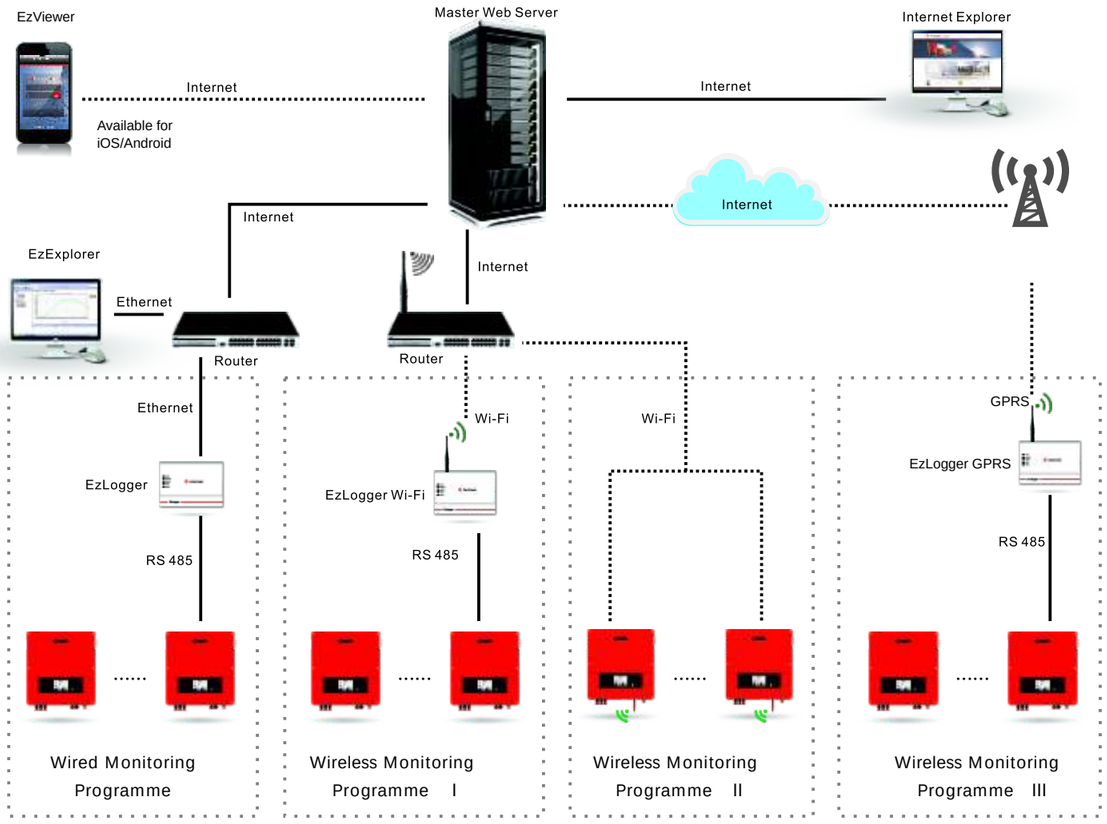
Technical Data	GW5048D-ES	GW3648D-ES
Solar		
Max. DC power [W]	5400	4200
Max. DC voltage [V]	580	580
MPPT voltage range [V]	125~550	125~550
Starting voltage [V]	150	150
Max. DC current [A]	11/11	11/11
No. of DC connectors	2	2
No. of MPPTs	2 (can parallel)	2 (can parallel)
DC connector	AMPHENOL/ MC4/ SUNCLIX	AMPHENOL/ MC4/ SUNCLIX
Battery		
Battery type	Lead-acid or Li-Ion	Lead-acid or Li-Ion
Norminal Voltage [V]	48	48
Max Discharge power [W]	4600	3600
MAX Charge power [W]	2300, programmable	2300, programmable
Battery capacity [Ah]	⩾100 (depending requirement)	⩾100 (depending requirement)
Charging curve	3-stage adaptive with maintenance	3-stage adaptive with maintenance
Charging voltage [V]	57 (optional)	57 (optional)
Battery temperature compensation	Included (Li-Ion)	Included (Li-Ion)
Battery voltage sense	Integrated	Integrated
Current shunt	Integrated	Integrated
AC Output Data		
Norminal AC power [W]	4600	3600
Max. AC power [W]	4600	3600
Peak power (Back-up) [W]	1.5x Pnom, 10sec	1.5x Pnom, 10sec
Max. AC current [A]	20	16
Norminal AC output	50/60Hz; 230Vac	50/60Hz; 230Vac
AC output range	45~55Hz/55~65Hz; 180~270Vac	45~55Hz/55~65Hz; 180~270Vac
AC output (Back-up)	230Vac ±2%, 50Hz(60Hz optional) ±0.2%, THDv<3% (linear load)	
THDi	<1.5%	<1.5%
Power factor	0.9 leading~0.9 lagging	0.9 leading~0.9 lagging
Grid connection	Single phase	Single phase
Efficiency		
Max. efficiency	97.6%	97.6%
Euro efficiency	>97.0%	>97.0%
MPPT adaptation efficiency	99.9%	99.9%
Protection		
Residual current monitoring unit	Integrated	Integrated
Anti-islanding protection	Integrated	Integrated
DC switch (PV)	Integrated (optional)	Integrated (optional)
AC over current protection	Integrated	Integrated
Insulation monitoring	Integrated	Integrated
Certifications&Standards		
Grid regulation	VDE-AR-N4105, VDE 0126-1-1, G83/2, G59/3, AS4777.2/.3	
Safety	IEC62109-1&-2, AS3100, IEC62040-1	
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-3-11, EN61000-3-12	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-3-2, EN61000-3-3
General Data		
Dimensions (WxHxD)	516*440*184mm	516*440*184mm
Weight [kg]	30	28
Mounting	Wall bracket	Wall bracket
Ambient temperature range	-25~60°C (>45°C derating)	-25~60°C (>45°C derating)
Relative humidity	0~95%	0~95%
Max. operating altitude	3000m	3000m
Protection degree	IP65	IP65
Topology	Transformerless	Transformerless
Standby losses [W]	<8	<8
Cooling	Nature convection	Nature convection
Noise emision [dB]	<25	<25
Display	LED light & APP	LED light & APP
Communication	USB2.0; WiFi	USB2.0; WiFi

GoodWe Monitoring System

General Introduction

We can provide our customers with a flexible internet monitoring solution which is suitable for residential, commercial rooftop systems and PV power plants. System monitoring device is user-friendly and reliable. It can archive all-weather data and automatically transmit data to our global PV monitoring web-server via internet. Our customers can login monitoring website or use smart phone Apps to check power plant information.

Monitoring System Diagram



EzLogger

EzLogger is a self-developed monitoring device by GoodWe. In combination with a GoodWe solar inverter, it can easily read and record all key plant data and constantly transmit the data to the GoodWe portal via internet.

- EzLogger: link to the inverter via RS485 and connect with PC via ethernet, and transmit data to GoodWe monitoring software EzExplorer and GoodWe portal.

- EzLogger Wi-Fi: link to the inverter via RS485 and connect with wireless router via Built - in Wi-Fi communication module, and transmit data to GoodWe portal.
- EzLogger GPRS: link to the inverter via RS485 and connect with internet via Built - in GPRS module, and transmit data to GoodWe portal.

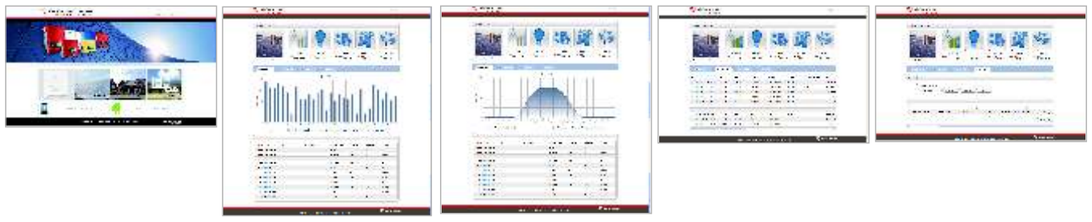
EzViewer

EzViewer is a PV system monitoring App developed by GoodWe which can be installed in your smart phone, iOS and Android available, it can link to GoodWe portal via internet in order to track the behavior and yields of PV power plants at any time.

Internet Monitoring Advantages

- Two basic communication choices of inverter: Wired RS485 and Wi-Fi
- Monitor the global PV power plants and automatically implement data acquisition via internet
- Equipped with data collector designed especially for enterprises to ensure data security
- Log-in web-server at any time via Internet Explorer to obtain information of PV power plants
- Support with iOS / Android APPs, rich and visual graphic display

Interface for Internet Monitoring



Five-star Service System of GoodWe

Global Service Hotline: +86 4009-281-333

System design includes the selection of photovoltaic modules and inverters, detailed scheme for system design, and the detection system.

GoodWe provides professional and efficient field installation and debugging service to ensure the smooth completion of project until successful generation.

GoodWe Customer-service System provides you with great service including assistance with system design, installation, debugging and troubleshooting.

GoodWe provides customized warranty service; in order to better service our dear clients, the warranty period is optional, including 5 years, 10 years, 15 years, 20 years and 25 years. Within the warranty period, GoodWe provides repair or replacement services free of charge. In case of any inverter failure beyond quality warranty period, only cost price will be charged for maintenance or machine replacement. The quality warranty period will be prolonged one year for the components after replacement.

GoodWe is cooperating with DSV (a famous international logistics company) and has set up bonded warehouses, to ensure that delivery on time, which is a good way to make the customer s needs our first priority.

Know More and Achieve More: GoodWe Solar Academy can provide professional expertise training about photovoltaic plant and specific industry, help the user become acquainted with the latest industrial development trend, development direction and hot issues, etc., in addition, its practical operating equipment will improve the comprehension of user about operation.

The customer can get a better understanding of our product and service through our hotline at anytime, GoodWe customer service system will resolve your problems concerning system design, installation, debugging and troubleshooting. For simple problems, customer service personnel will solve directly through our hotline; and relevant experts will resolve complicated ones for you.

System design includes the selection of photovoltaic modules and inverter, detailed scheme for system design and the detection system. Goodwe customizes the optimal system design scheme, equips with senior experts and system scheme experts, and provides the professional package consulting service ranging from investment proposal, construction and operation of photovoltaic project, benefiting the customer with profitable return from the investment in photovoltaic industry.

GoodWe's technical service engineer will, based on the requirement of customer, provide with professional and efficient field installation and debugging service to ensure the smooth completion of project until successful generation, supply with excellent service system for quick field fault diagnosis and equipment replacement service. In addition, in response to the request from customer, a technical service engineer will provide training in terms of relevant knowledge, daily operation and maintenance of equipment.

CEI 0-21 ISO 14001 RD1699

Commercial Projects

200kW, Denmark

500kW, Turkey

200kW, Australia

100kW, Turkey

175kW, Switzerland

2MW, Taizhou, China

70kW, School Project of the Netherlands

418kW, Panasonic Factory

500kW, Zhejiang, China

Residential Projects

20kW, UK

6kW, South Africa

20kW, Germany

6kW, Denmark

6kW, Denmark

Capel St. Mary (GoodWe Village), UK

4.6kW, South Africa

4kW, Malaysia

8kW, Netherlands

40kW, South Africa

17kW, Hebei, China

8kW, Denmark

8kW, School of South Africa

17kW, South Africa

16X15kW, Jiangsu, China

Hybrid Inverter Projects

5kW, Indonesia

10kW, Thailand

5kW, Philippines

5kW, UK

Mode	VDE0126-1-1 (Europe)	VDE-AR-N 4105 (Germany)	EN62109-1&-2 (Europe)	SAA (Australia)	G83/2 (England)	G59/3 (England)	NB-T32004 (China)	EN50438+ VDE0126-1-1/A1 (Poland)	EN50438+ VDE0126-1-1/A1 (Portugal)	NRS 097-2-1 (S. Africa)	MEA+PEA (Thailand)	ERDF-NOI -RES_13E (France)	IEC61727IEC62116 IEC60068/IEC61683 (India)	Remarks
NS Series:														
GW1000-NS	■		■	■	■		■	■				■		
GW1500-NS	■		■	■	■		■	■				■		
GW2000-NS	■		■	■	■		■	■				■		
GW2500-NS	■		■	■	■		■	■				■		
GW3000-NS	■		■	■	■		■	■				■		
SS Series:														
GW4000-SS	■	■	■	■		■	■	■	■	■				
GW4600-SS	■	■	■	■		■	■	■	■	■				
GW3600S-UK	■				■									
GW3600S-DK	■	■			■									
NDS Series:														
GW3000N-DS	■	■	■	■	■		■	■						
GW3600N-DS	■	■	■	■	■		■	■			■			
GW4200N-DS	■	■	■	■		■	■	■						
GW5000N-DS	■	■	■	■		■	■	■			■			
DS Series:														
GW3600-DS	■	■	■	■		■	■	■	■			■		
GW4200-DS	■	■	■	■		■	■	■	■			■		
GW4600-DS	■	■	■	■		■	■	■	■		■	■		
GW5000-DS			■	■		■						■		
GW3600D-UK					■									
GW3600D-DK	■	■	■		■									
DT Series:														
GW4000-DT	■	■	■	■	■		■	■				■		
GW5000-DT	■	■	■	■	■		■	■				■		
GW6000-DT	■	■	■	■	■		■	■				■		
GW4000L-DT			■	■	■			■				■		
GW5000L-DT			■	■	■			■				■		
GW6000L-DT			■	■	■			■				■		
GW09K-DT	■											■		
GW10K-DT	■	■	■	■		■	■	■		■	■	■	■	
GW12K-DT	■	■	■	■		■	■	■		■		■	■	
GW15K-DT	■	■	■	■		■	■	■		■		■	■	
GW17K-DT	■	■	■	■		■	■	■		■		■	■	
GW20K-DT	■	■	■	■		■	■	■		■	■	■	■	
GW25K-DT	■	■	■			■	■	■					■	
GW30K-DT							■							
ES Series:														
GW3648D-ES	■	■	■	■	■					■				
GW3648S-ES	■	■	■	■	■					■				
GW4248D-ES	■	■	■	■		■				■				
GW5048D-ES	■	■	■	■		■				■				

CERTIFICATES

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