



More than "Double A" More than respectable result

Photon <small>The Solar Power Magazine International</small> <small>Goodwe GW4000-SS</small> A <small>96.9 % for medium irradiation</small> <small>12/2012</small> <small>www.photon.info</small>	Photon <small>The Solar Power Magazine International</small> <small>Goodwe GW4000-SS</small> A <small>97.1 % for high irradiation</small> <small>12/2012</small> <small>www.photon.info</small>
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Straight on a path to success

A compact, unadorned 4 kW inverter from China has passed the PHOTON test with a more than respectable result: its efficiency is as impressive as its operation is convenient

——Photon International

Global Service Hotline: +86 4009-281-333

GoodWe (Europe) Lise-Meitner-Str. 1-13 (Haus 1) D-42119 Wuppertal, Germany T: +49 202 94228160 F: +49 202 94228161 europe@goodwe.com.cn www.goodwe.de	GoodWe (Australia) 74 Tarana Avenue, Glenroy VIC 3046, Australia T: +61 432 180 156 david.liu@goodwe.com.cn www.goodwe.de	GoodWe (China) No.189 Kunlunshan Rd., SND, Suzhou, 215163, China T: +86 512 6239 6771 F: +86 512 6239 7972 sales@goodwe.com.cn www.goodwe.com.cn
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DT Series

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.

DT Series Technical Data

- Maximum Efficiency up to 98.2%
- DC switch disconnecter
- European Efficiency up to 97.5%
- IP65 dust-proof and water-proof rating
- MPPT Efficiency over 99.5%
- 45°C full-load output
- Super large 5-inch LCD
- 30% lighter than similar products
- Multiple monitoring and communication up to 800 pieces can be integrated in one system



DC Input Data

Max. PV-generator power [W]	4200
Max. DC voltage [V]	1000
MPPT voltage range [V]	200-800
Turn on DC voltage [V]	150
Turn off DC voltage [V]	220
Max. DC work current [A]	11/11
Number of inputs/MPP trackers	2(can parallel)
DC connector	MC IV Connector (optional)
Standby power consumption [W]	10

AC Output Data

Nominal AC power [W]	4000
Max. AC power [W]	4000
Max. AC current [A]	7
Nominal output voltage range	According to VDE-AR-N 4105, RD1663, ENEL, G59, SAA
AC grid frequency	According to VDE-AR-N 4105, RD1663, ENEL, G59, SAA
THDI	<1.5%
Power factor	0.90 leading...0.90 lagging
AC connector	3W/NiPE, 230/400V

Efficiency

Max. efficiency	97.0%
European efficiency	>96.5%
MPPT adaptation efficiency	>99.5%

Safety Equipment

Leakage current monitoring unit	Integrated
DC switch	Optional
Islanding protection	AFD
Grid monitoring	According to VDE-AR-N 4105, AS4777.1/2/3, RD1663, ENEL Guide, G83

Normative Reference

EMC compliance	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4 IEC 62109-1, AS3100
Safety compliance	IEC 62109-1, AS3100

General Data

Dimensions (W*H*D) [mm]	415*516*192
Net weight [kg]	27
Housing	For outdoor and indoor
Mounting information	Wall mounting
Operating temperature range	-20-60°C (up 45°C derating)
Relative humidity	0-95%
Site altitude [m]	2000
IP protection class	IP65
Topology	Transformerless
Cooling concept	Natural convection
Noise level [dB]	<45
Display	5" LCD
Communication	USB2.0, RS485/Wi-Fi/ZigBee(optional)
Standard warranty [years]	5/10/15/20/25 (optional)

GW04K-DT

10200	12300	15400	17500
1000	1000	1000	1000
260-850	260-850	260-850	260-850
250	250	250	250
220	220	220	220
22/11	22/11	22/22	22/22
4/2	4/2	6/2 (can parallel)	6/2 (can parallel)
MC IV Connector (optional)	MC IV Connector (optional)	MC IV Connector (optional)	MC IV Connector (optional)
10	10	10	10

GW05K-DT

10000	12000	15000	17000
10000	12000	15000	17000
17	19	25	25
VDE-AR-N 4105, VDE 0128-1-1/A1, RD1699, CEI 0-21, G59/2, AS4777.2/3	VDE-AR-N 4105, VDE 0128-1-1/A1, RD1699, ENEL, G59/2, AS4777.2/3	VDE-AR-N 4105, VDE 0128-1-1/A1, RD1699, ENEL, G59/2, AS4777.2/3	VDE-AR-N 4105, VDE 0128-1-1/A1, RD1699, ENEL, G59/2, AS4777.2/3
VDE-AR-N 4105, VDE 0128-1-1/A1, RD1699, CEI 0-21, G59/2, AS4777.2/3	VDE-AR-N 4105, VDE 0128-1-1/A1, RD1699, ENEL, G59/2, AS4777.2/3	VDE-AR-N 4105, VDE 0128-1-1/A1, RD1699, ENEL, G59/2, AS4777.2/3	VDE-AR-N 4105, VDE 0128-1-1/A1, RD1699, ENEL, G59/2, AS4777.2/3
<1.5%	<1.5%	<1.5%	<1.5%
0.90 leading...0.90 lagging	0.90 leading...0.90 lagging	0.90 leading...0.90 lagging	0.90 leading...0.90 lagging
3W/NiPE, 230/400V	3W/NiPE, 230/400V	3W/NiPE, 230/400V	3W/NiPE, 230/400V
97.0%	97.0%	98.2%	98.2%
>96.5%	>96.5%	>97.5%	>97.5%
>99.5%	>99.5%	>99.5%	>99.5%
Integrated	Integrated	Integrated	Integrated
Optional	Optional	Optional	Optional
AFD	AFD	AFD	AFD
According to VDE-AR-N 4105, AS4777.1/2/3, RD1663, ENEL Guide, G83	According to VDE-AR-N 4105, AS4777.1/2/3, RD1663, ENEL Guide, G83	According to VDE-AR-N 4105, AS4777.1/2/3, RD1663, ENEL Guide, G83	According to VDE-AR-N 4105, AS4777.1/2/3, RD1663, ENEL Guide, G83
EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4 IEC 62109-1, AS3100	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4 IEC 62109-1, AS3100	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4 IEC 62109-1, AS3100	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4 IEC 62109-1, AS3100

GW10K-DT

5200	6200	8200	10000
1000	1000	1000	1000
200-800	200-800	200-800	200-800
150	150	150	150
220	220	220	220
11/11	11/11	22/22	22/22
2(can parallel)	2(can parallel)	2(can parallel)	2(can parallel)
MC IV Connector (optional)	MC IV Connector (optional)	MC IV Connector (optional)	MC IV Connector (optional)
10	10	10	10

GW12K-DT

5000	6000	8000	10000
5000	6000	8000	10000
8.5	10	12	15
According to VDE-AR-N 4105, RD1663, ENEL, G59, SAA	According to VDE-AR-N 4105, RD1663, ENEL, G59, SAA	According to VDE-AR-N 4105, RD1663, ENEL, G59, SAA	According to VDE-AR-N 4105, RD1663, ENEL, G59, SAA
According to VDE-AR-N 4105, RD1663, ENEL, G59, SAA	According to VDE-AR-N 4105, RD1663, ENEL, G59, SAA	According to VDE-AR-N 4105, RD1663, ENEL, G59, SAA	According to VDE-AR-N 4105, RD1663, ENEL, G59, SAA
<1.5%	<1.5%	<1.5%	<1.5%
0.90 leading...0.90 lagging	0.90 leading...0.90 lagging	0.90 leading...0.90 lagging	0.90 leading...0.90 lagging
3W/NiPE, 230/400V	3W/NiPE, 230/400V	3W/NiPE, 230/400V	3W/NiPE, 230/400V
97.0%	97.0%	97.5%	98.0%
>96.5%	>96.5%	>97.5%	>97.5%
>99.5%	>99.5%	>99.5%	>99.5%
Integrated	Integrated	Integrated	Integrated
Optional	Optional	Optional	Optional
AFD	AFD	AFD	AFD
According to VDE-AR-N 4105, AS4777.1/2/3, RD1663, ENEL Guide, G83	According to VDE-AR-N 4105, AS4777.1/2/3, RD1663, ENEL Guide, G83	According to VDE-AR-N 4105, AS4777.1/2/3, RD1663, ENEL Guide, G83	According to VDE-AR-N 4105, AS4777.1/2/3, RD1663, ENEL Guide, G83
EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4 IEC 62109-1, AS3100	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4 IEC 62109-1, AS3100	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4 IEC 62109-1, AS3100	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4 IEC 62109-1, AS3100

GW15K-DT

516*650*203	516*650*203	516*650*203	516*650*203
39	39	39	39
For outdoor and indoor	For outdoor and indoor	For outdoor and indoor	For outdoor and indoor
Wall mounting	Wall mounting	Wall mounting	Wall mounting
-20-60°C (up 45°C derating)	-20-60°C (up 45°C derating)	-20-60°C (up 45°C derating)	-20-60°C (up 45°C derating)
0-95%	0-95%	0-95%	0-95%
2000	2000	2000	2000
IP65	IP65	IP65	IP65
Transformerless	Transformerless	Transformerless	Transformerless
Natural convection	Natural convection	Natural convection	Natural convection
<45	<45	<45	<45
5" LCD	5" LCD	5" LCD	5" LCD
USB2.0, RS485/Wi-Fi/ZigBee(optional)	USB2.0, RS485/Wi-Fi/ZigBee(optional)	USB2.0, RS485/Wi-Fi/ZigBee(optional)	USB2.0, RS485/Wi-Fi/ZigBee(optional)
5/10/15/20/25 (optional)	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)

GW17K-DT

516*650*203	516*650*203	516*650*203	516*650*203
39	39	39	39
For outdoor and indoor	For outdoor and indoor	For outdoor and indoor	For outdoor and indoor
Wall mounting	Wall mounting	Wall mounting	Wall mounting
-20-60°C (up 45°C derating)	-20-60°C (up 45°C derating)	-20-60°C (up 45°C derating)	-20-60°C (up 45°C derating)
0-95%	0-95%	0-95%	0-95%
2000	2000	2000	2000
IP65	IP65	IP65	IP65
Transformerless	Transformerless	Transformerless	Transformerless
Natural convection	Natural convection	Natural convection	Natural convection
<45	<45	<45	<45
5" LCD	5" LCD	5" LCD	5" LCD
USB2.0, RS485/Wi-Fi/ZigBee(optional)	USB2.0, RS485/Wi-Fi/ZigBee(optional)	USB2.0, RS485/Wi-Fi/ZigBee(optional)	USB2.0, RS485/Wi-Fi/ZigBee(optional)
5/10/15/20/25 (optional)	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)