



GW12K-DT



- Max. efficiency up to 98.0%
- IP65 protection class as standard
- Large 5 inch graphical display
- Integrated DC switch(optional)
- Built-in surge protection function
- 30% lighter than similar products
- Wider voltage range from 260V to 850V
- Wi-Fi monitoring with multiple user access and mobile Apps (optional)

Case Study: GoodWe three-phase inverters in commercial projects



Location: Rooftop of Canadian Solar's factory
Capacity: 1.2 MW
Inverter: 53 x GW17K-DT, 20 x GW15K-DT



Location: Rooftop of Panasonic factory
Capacity: 430 KW
Inverter: 14 x GW17K-DT, 12 x GW15K-DT



Location: Industrial park in Suzhou, China
Capacity: 967 KW
Inverter: 32 x GW17K-DT, 15 x GW15K-DT

Technical Data

GW12K-DT

DC Input Data	
Max. PV-generator power [W]	12300
Max. DC voltage [V]	1000
MPPT voltage range [V]	260-850
Turn on DC voltage [V]	250
Max. DC work current [A]	22/11
Number of inputs/MPP trackers	4/2
DC connector	SUNCLIX, MC IV (optional)
Standby power consumption [W]	10
AC Output Data	
Nominal AC power [W]	12000
Max. AC power [W]	12000
Max. AC current [A]	19
Nominal output voltage range	VDE-AR-N 4105, VDE 0126-1-1/A1, RD1699, G59/2, AS4777.2/3
AC grid frequency	VDE-AR-N 4105, VDE 0126-1-1/A1, RD1699, G59/2, AS4777.2/3
THDi	<1.5%
Power factor	0.90 leading...0.90 lagging
AC connection	3W/N/PE, 230/400V
Efficiency	
Max. efficiency	98.0%
European efficiency	>97.5%
MPPT adaptation efficiency	>99.5%
Safety Equipment	
Leakage current monitoring unit	Integrated
DC switch	Optional
Islanding protection	AFD
Grid monitoring	VDE-AR-N 4105, VDE 0126-1-1/A1, RD1699, G59/2, AS4777.2/3
Normative Reference	
EMC compliance	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4
Safety compliance	IEC 62109-1, AS3100
General Data	
Dimensions (W*H*D) [mm]	516*650*203
Net weight [kg]	39
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	Fan cooling
Noise level [dB]	<45
Display	5" LCD
Communication	USB2.0; RS485/Wi-Fi/ZigBee(optional)
Standard warranty [years]	5/10/15/20/25 (optional)