



## GW12K-DT (Dual-MPPT Three-phase)

The GW12K-DT photovoltaic inverter is suitable for commercial and industrial roofs and constructions of small and medium-sized photovoltaic power stations. This model uses full-digital control technology, advanced topologies and leading inverter control technology. It has lower loss compared to similar products, which is easier to achieve the maximization of the overall efficiency of photovoltaic systems. Rich communication interfaces make it more convenient to network and monitor. The use of film capacitor achieves longer service life, more stable system and super-large LCD screen so that we have a commanding view to the run data of the machine.

### High Performance

- Maximum Efficiency up to 98.0%
- European Efficiency up to 97.5%
- MPPT Efficiency over 99.5%

### High Safety and Reliability

- DC switch disconnecter
- IP65 dust-proof and water-proof
- 45°C full-load output

### Customer-oriented Design

- Super large 5-inch LCD
- 30% lighter than similar products
- Multiple monitoring and communication
- up to 800 pieces can be integrated in one system

## 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	MC IV Connector
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	According to VDE-AR-N 4105, VDE 0126-1-1/A1, RD1699, ENEL, G59/2, AS4777.2/3
AC grid frequency	According to VDE-AR-N 4105, VDE 0126-1-1/A1, RD1699, ENEL, G59/2, AS4777.2/3
THDi	<1.5%
Power factor	0.95 leading...0.95 lagging
AC connector	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	According to VDE-AR-N 4105, VDE 0126-1-1/A1, RD1699, CEI 0-21, 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	According to 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 [Wireless(ZigBee) optional]
Standard warranty [years]	5/10/15/20/25(optional)