

MT Series Technical Data



GoodWe Central series inverter is used in small/middle size commercial solar power plants, industrial rooftop distributed solar power plants and large-scale ground grid tied solar power plants, especially suitable for Chinese Golden Sun projects. This kind of inverters adopts industrial design philosophy as well as proven inverter control technology, to ensure a long service life - 25 years. Its advanced LVRT (Low Voltage Ride Through) technology and unique intelligent backflow protection technique are able to make output power line control; the very low harmonic output and very high transfer efficiency provide a strong support for green and efficient power plants operation, which can be widely used in AC networks with different structures. And the SVG (Static Var Generator) technology saves reactive power invests of photovoltaic power station. Additionally, the strict quality-monitoring system and production process control system of GoodWe provide a firm protection for the quality of inverters.

Technical Data GW50K- MT GW100K- MT ~~GW250K- MT~~ ~~GW500K- MT~~ W250K- MTL W500K- MTL

DC Input Data						
Max. DC voltage [V]	1000Vdc			1000Vdc		
MPPT voltage range [V]	450~820Vdc			450~820Vdc		
Max. PV-generator power [kW]	55kWp	110kWp	275kWp	550kWp	275kWp	550kWp
MPPT adaptation efficiency	>99%			>99%		
Max. DC current [A]	130A	250A	600A	1200A	600A	1200A
Max. Input numbers	2	3	5	10	8	10
AC Output Data						
Nominal output power [kW]	50kW	100kW	250kW	500kW	250kW	500kW
Nominal output voltage [V]	400Vac			270Vac		
Grid voltage range [V]	310~450Vac			310~450Vac (270/400Transformer)		
Nominal grid frequency [Hz]	50Hz/60Hz			50Hz/60Hz		
Grid frequency range [Hz]	47.5~52.5Hz/57~63Hz			(47.5~52.5)Hz/(57~63)Hz		
THDi	<1% (Nominal power); <3% (1/4 Nominal power)			<1% (Nominal power); <3% (1/4Nominal power)		
Power factor	≥0.99(Nominal power)			≥0.99(Nominal power)		
System						
Max. efficiency	96.3%	97.1%	97.3%	97.5%	98.2%	98.8%
European efficiency	95.3%	96.4%	96.5%	96.8%	97.8%	98.6%
IP protection class	IP20			IP20		
Operating temperature range	-25~+55℃			-25~+55℃		
Cooling	Fan cooling			Fan cooling		
Relative humidity	0~95%, non-condensing			0~95%, non-condensing		
Display	Touch Screen			Touch Screen		
Communication	RS485 (Ethernet/GPRS optional)			RS485 (Ethernet/GPRS optional)		
Mechanical Parameter						
Dimensions (W*H*D) [mm]	810×1905×600	1010 ×2005 ×800	2010×2100 ×800	2010×2100×800+	2010×2100×800	
				1310×2100×1000		
Net Weight [kg]	680kg	970kg	2100kg	3000 kg	900kg	1700kg