

GMTH12-25KWS

Solar Inverter Series



Three Phase | 12-25KW | High Voltage

- Quick Arc Fault circuit interruption (Optional)
- Compact design
- String level monitoring



WIFI standard



Compatible with
bifacial modules



Multiple intelligent
protections



Technical Data

PV Input Data	GMTH12KWS	GMTH13KWS	GMTH15KWS	GMTH17KWS	GMTH20KWS	GMTH25KWS
Max. DC Power (W)	18000	19500	22500	25500	30000	37500
Max. DC Voltage (V)	1100					
MPPT Voltage Range (V)	150-1000					
MPPT Full Power Voltage Range (V)	500-850					
Rated Input Voltage (V)	620					
Start-up Voltage (V)	150					
Max. Input Current (A)	15×2		20+32		32×2	
Max. Short Current (A)	25×2		30+48		48×2	
No. of MPP Tracker / No. of PV String	2/2		2/3		2/4	
Input Connector Type	MC4					
AC Output Data	GMTH12KWS	GMTH13KWS	GMTH15KWS	GMTH17KWS	GMTH20KWS	GMTH25KWS
Max. Output Power (VA)	13200	14300	16500	18700	22000	27500
Nominal Output Power (W)	12000	13000	15000	17000	20000	25000
Max. Output Current (A)	21.5	22	27	30	32	40
Nominal Output Voltage (V)	3P+N+PE/3P+PE 230/400					
Grid Voltage Range	260Vac-519Vac (According to local standard)					
Nominal Output Frequency (Hz)	50/60					
Grid Frequency Range	45-55Hz/55-65 Hz (According to local standard)					
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)					
Output Current THD	<3%					
Efficiency	GMTH12KWS	GMTH13KWS	GMTH15KWS	GMTH17KWS	GMTH20KWS	GMTH25KWS
Max. Efficiency		98.70%			98.75%	
Euro Efficiency		98.23%			98.35%	
Protection	GMTH12KWS	GMTH13KWS	GMTH15KWS	GMTH17KWS	GMTH20KWS	GMTH25KWS
PV Reverse Polarity Protection	YES					
PV Insulation Resistance Detection	YES					
AC Short Circuit Protection	YES					
AC Over Current Protection	YES					
AC Over Voltage Protection	YES					
Anti-Islanding Protection	YES					
Residual Current Detection	YES					
Over Temperature Protection	YES					
Integrated DC switch	YES					
Surge Protection	Integrated (Type II)					
Smart IV Curve Scanning	YES					
Quick Arc Fault Circuit Interruption	Optional					
General Data	GMTH12KWS	GMTH13KWS	GMTH15KWS	GMTH17KWS	GMTH20KWS	GMTH25KWS
Dimensions (W x H x D, mm)	370×510×192			370×535×192		
Weight (kg)	16	17			19	
Protection Degree	IP65					
Enclosure Material	Aluminum					
Ambient Temperature Range (°C)	-25 - + 60					
Humidity Range	0 - 100%					
Topology	Transformerless					
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)					
Cooling Concept	Intelligent fan cooling					
Noise Emission (db)	< 40				< 51	
Night Power Consumption (W)	<1					
Max. Operation Altitude (m)	≤4000					
Certifications and Standards						
EMC Standard	EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12					
Safety Standard	IEC 60068, UL1741, EN62109					
Grid connection	IEEE1547, CSA C22, EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, G98/G99, IEC61727					