

GMTH3-10KWS

Solar Inverter Series



Three Phase | 3-10KW | High Voltage

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



IP 68 Cooling Fan



Type II DC & AC
lightning protection



AC output 1.1x
continuous operation



Technical Data

PV Input Data	GMTH3KWS	GMTH4KWS	GMTH5KWS	GMTH6KWS	GMTH8KWS	GMTH10KWS
Max. DC Power (W)	5100	6000	7500	9000	12000	15000
Max. DC Voltage (V)	1100					
MPPT Voltage Range (V)	150-1000					
MPPT Full Power Voltage Range (V)	200-850	200-850	200-850	250-850	300-850	500-850
Rated Input Voltage (V)	620					
Start-up Voltage (V)	150					
Max. Input Current (A)	15×2					
Max. Short Current (A)	25×2					
No. of MPP Tracker / No. of PV String	2/2					
Input Connector Type	MC4					
AC Output Data	GMTH3KWS	GMTH4KWS	GMTH5KWS	GMTH6KWS	GMTH8KWS	GMTH10KWS
Max. Output Power (VA)	3300	4400	5500	6600	8800	11000
Nominal Output Power (W)	3000	4000	5000	6000	8000	10000
Max. Output Current (A)	5.3	7	8.5	10.5	13.5	17
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	GMTH3KWS	GMTH4KWS	GMTH5KWS	GMTH6KWS	GMTH8KWS	GMTH10KWS
Max. Efficiency	98.30%	98.30%	98.30%	98.30%	98.30%	98.70%
Euro Efficiency	97.61%	97.65%	98.00%	98.05%	98.05%	98.23%
Protection	GMTH3KWS	GMTH4KWS	GMTH5KWS	GMTH6KWS	GMTH8KWS	GMTH10KWS
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	GMTH3KWS	GMTH4KWS	GMTH5KWS	GMTH6KWS	GMTH8KWS	GMTH10KWS
Dimensions (W x H x D, mm)	370×510×167				370×510×192	
Weight (kg)	16					
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	Convection				Intelligent fan cooling	
Noise Emission (db)	< 30					
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					