

# GMTH70-110KWS

## Solar Inverter Series



**Three Phase | 70-110KW | High Voltage**

- MPPT efficiency > 99.9%
- Arc Fault Circuit Interrupter (AFCI) (Optional)
- Active and reactive power compensation, adjust power factor



**IP 68 Cooling Fan**



**Type II DC & AC  
lightning protection**



**Intelligent Temperature  
Control System**



## Technical Data

PV Input Data	GMTH70KWS	GMTH75KWS	GMTH80KWS	GMTH90KWS	GMTH100KWS	GMTH110KWS
Max. DC Power ( W )	105000	112500	120000	135000	150000	165000
Max. DC Voltage ( V )	1100					
MPPT Voltage Range ( V )	200-1000					
MPPT Full Power Voltage Range ( V )	500-850					
Rated Input Voltage ( V )	620					
Start-up Voltage ( V )	200					
Max. Input Current ( A )	38×6					
Max. Short Current ( A )	48×6					
No. of MPP Tracker / No. of PV String	6/12					
Input Connector Type	MC4					
AC Output Data	GMTH70KWS	GMTH75KWS	GMTH80KWS	GMTH90KWS	GMTH100KWS	GMTH110KWS
Max. Output Power ( VA )	77000	82500	88000	99000	110000	110000
Nominal Output Power ( W )	70000	75000	80000	90000	100000	110000
Max. Output Current ( A )	111	120	127	143	158	158
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/55-66 Hz (According to local standard)					
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)					
Output Current THD	<3%					
Efficiency	GMTH70KWS	GMTH75KWS	GMTH80KWS	GMTH90KWS	GMTH100KWS	GMTH110KWS
Max. Efficiency	99.00%					
Euro Efficiency	98.30%			98.40%		
Protection	GMTH70KWS	GMTH75KWS	GMTH80KWS	GMTH90KWS	GMTH100KWS	GMTH110KWS
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	GMTH70KWS	GMTH75KWS	GMTH80KWS	GMTH90KWS	GMTH100KWS	GMTH110KWS
Dimensions (W x H x D, mm)	979×610×310					
Weight ( kg )	72			76		
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 )	<55			<60		
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					