



Built-in Anti-feed-in Function



Compact Size & Easy Installation



Smart Monitoring & Remote Hardware Upgrade



Technical Data

Technical Data												
PV Input	GMTH3KWE	GMTH4KWE	GMTH5KWE	GMTH6KWE	GMTH8KWE	GMTH10KWE						
Max. DC Input Power (kW)	5	6	7.5	9	12	15						
Max. PV Voltage (V)	1000											
Rated DC Input Voltage (V)	620											
DC Input Voltage Range (V)	150-1000											
MPPT Voltage Range (V)	150-850											
Full MPPT Range(V)		200-850		250-850	300-850	500-850						
Start-up Voltage (V)	160											
Max. DC Input Current (A)				0x2								
Max. Short Current(A))x2								
No. of MPPT Tracker / Strings				/2								
Battery Port	GMTH3KWE	GMTH4KWE	GMTH5KWE	GMTH6KWE	GMTH8KWE	GMTH10KWE						
Battery Nominal Voltage (V)	200	200	200	250	300	400						
Battery Voltage Range (V)				-800								
Max. Charge/Discharge Current (A)				30								
Max. Charge/Discharge Power (kW)	3	4	5	6	8	10						
				ages	0	10						
Charging Curve		Lijor		.ages ım metal chloride b	attory							
Compatible Battery Type AC Grid	GMTH3KWE	GMTH4KWE	GMTH5KWE		GMTH8KWE	GMTH10KWE						
				GMTH6KWE								
Nominal AC Output Power (kW)	3	6 (4.4	5 7 7 7 7 7 7	6	8	10						
Max. AC Input/Output Power (kVA)	4.5 / 3.3	6 / 4.4	7.5 / 5.5	9 / 6.6	12 / 8.8	15 / 11						
Max. AC Output Current (A)	5.3	7	8.5	10.5	13.5	17						
Nominal AC Voltage (V)				/400								
Nominal AC Frenquency (Hz)				/60								
Power Factor				adjustable								
Current THD (%)				3%								
AC Load Output (Back-up)	GMTH3KWE	GMTH4KWE	GMTH5KWE	GMTH6KWE	GMTH8KWE	GMTH10KWE						
Nominal Output Power (VA)	3000	4000	5000	6000	8000	10000						
Nominal Output Voltage (V)			230	/400								
Nominal Output Frequency (Hz)			50	/60								
Nominal Output Current (A)	4.4	5.8	7.3	8.7	11.6	14.5						
Peak Output Power	3300VA, 60s	4400VA, 60s	5500VA, 60s	6600VA, 60s	8800VA, 60s	11000VA, 60s						
THDV (with linear load)			<:	3%								
Switching Time (ms)			<	10								
Efficiency	GMTH3KWE	GMTH4KWE	GMTH5KWE	GMTH6KWE	GMTH8KWE	GMTH10KWE						
Europe Efficiency			97.	50%								
Max. Efficiency			98.00%		98.	:						
Battery Charge/Discharge Efficiency	98.00%											
, , , ,			98.	00%		20 %						
Protection	GMTH3KWE	GMTH4KWE			GMTH8KWE							
Protection Reverse Polarity Protection	GMTH3KWE	GMTH4KWE	GMTH5KWE	GMTH6KWE	GMTH8KWE	GMTH10KWE						
Reverse Polarity Protection	GMTH3KWE	GMTH4KWE	GMTH5KWE	GMTH6KWE	GMTH8KWE							
Reverse Polarity Protection Over Current / Voltage Protection	GMTH3KWE	GMTH4KWE	GMTH5KWE Y Y	GMTH6KWE es es	GMTH8KWE							
Reverse Polarity Protection	GMTH3KWE	GMTH4KWE	GMTH5KWE Y Y Y	GMTH6KWE es es	GMTH8KWE							
Reverse Polarity Protection Over Current / Voltage Protection Anti-islanding Protection AC Short-ciruit Protection	GMTH3KWE	GMTH4KWE	GMTH5KWE Y Y Y	GMTH6KWE es es es es	GMTH8KWE							
Reverse Polarity Protection Over Current / Voltage Protection Anti-islanding Protection AC Short-ciruit Protection Leakage Current Detection	GMTH3KWE	GMTH4KWE	GMTH5KWE Y Y Y Y Y	es es es es es	GMTH8KWE							
Reverse Polarity Protection Over Current / Voltage Protection Anti-islanding Protection AC Short-ciruit Protection Leakage Current Detection Ground Fault Monitoring	GMTH3KWE	GMTH4KWE	GMTH5KWE Y Y Y Y Y Y Y	es es es es es es	GMTH8KWE							
Reverse Polarity Protection Over Current / Voltage Protection Anti-islanding Protection AC Short-ciruit Protection Leakage Current Detection Ground Fault Monitoring Grid Monitoring	GMTH3KWE	GMTH4KWE	GMTH5KWE Y Y Y Y Y Y Y Y Y	es es es es es	GMTH8KWE							
Reverse Polarity Protection Over Current / Voltage Protection Anti-islanding Protection AC Short-ciruit Protection Leakage Current Detection Ground Fault Monitoring Grid Monitoring Enclosure Protect Level			GMTH5KWE Y Y Y Y Y Y Y Y IP	es e		GMTH10KWE						
Reverse Polarity Protection Over Current / Voltage Protection Anti-islanding Protection AC Short-ciruit Protection Leakage Current Detection Ground Fault Monitoring Grid Monitoring Enclosure Protect Level General Data	GMTH3KWE	GMTH4KWE	GMTH5KWE Y Y Y Y Y Y Y IP	GMTH6KWE es es es es es es es es GMTH6KWE	GMTH8KWE							
Reverse Polarity Protection Over Current / Voltage Protection Anti-islanding Protection AC Short-ciruit Protection Leakage Current Detection Ground Fault Monitoring Grid Monitoring Enclosure Protect Level General Data Dimensions (W x H x D, mm)			GMTH5KWE Y Y Y Y Y Y Y IP GMTH5KWE 370 x 497 x 192 /	es es es es es es GMTH6KWE GMTH6KWE GMTH6KWE SS8 x S35 x 260 mr	GMTH8KWE	GMTH10KWE						
Reverse Polarity Protection Over Current / Voltage Protection Anti-islanding Protection AC Short-ciruit Protection Leakage Current Detection Ground Fault Monitoring Grid Monitoring Enclosure Protect Level General Data Dimensions (W x H x D, mm) Weight (kg)			GMTH5KWE Y Y Y Y Y Y Y Y IP GMTH5KWE 370 x 497 x 192 / 20.8	es es es es es es es GMTH6KWE Figure 1 GMTH6KWE Figure 2 GMTH6KWE Figure 2 Figure 3 Figure 3 Figure 3 Figure 4 Figu	GMTH8KWE	GMTH10KWE						
Reverse Polarity Protection Over Current / Voltage Protection Anti-islanding Protection AC Short-ciruit Protection Leakage Current Detection Ground Fault Monitoring Grid Monitoring Enclosure Protect Level General Data Dimensions (W x H x D, mm) Weight (kg) Topology		GMTH4KWE	GMTH5KWE Y Y Y Y Y Y Y Y IP GMTH5KWE 370 x 497 x 192 / 20.8 Transfo	es es es es es es GMTH6KWE GMTH6KWE GMTH6KWE SS8 x S35 x 260 mr	GMTH8KWE	GMTH10KWE						
Reverse Polarity Protection Over Current / Voltage Protection Anti-islanding Protection AC Short-ciruit Protection Leakage Current Detection Ground Fault Monitoring Grid Monitoring Enclosure Protect Level General Data Dimensions (W x H x D, mm) Weight (kg) Topology Cooling Concept		GMTH4KWE	GMTH5KWE Y Y Y Y Y Y Y IP GMTH5KWE 370 x 497 x 192 / 20.8 Transfo	es es es es es es es es for GMTH6KWE For GMTH6KWE For For GMTH6KWE For For For For For For For Fo	GMTH8KWE	GMTH10KWE						
Reverse Polarity Protection Over Current / Voltage Protection Anti-islanding Protection AC Short-ciruit Protection Leakage Current Detection Ground Fault Monitoring Grid Monitoring Enclosure Protect Level General Data Dimensions (W x H x D, mm) Weight (kg) Topology Cooling Concept Relative Humidity		GMTH4KWE	GMTH5KWE Y Y Y Y Y Y Y IP GMTH5KWE 370 x 497 x 192 / 20.8 Transfo	es es es es es es es es for GMTH6KWE For GMTH6KWE For For GMTH6KWE For For GMTH6KWE For GMTH6KWE For For GMTH6KWE For GMTH6	GMTH8KWE	GMTH10KWE						
Reverse Polarity Protection Over Current / Voltage Protection Anti-islanding Protection AC Short-ciruit Protection Leakage Current Detection Ground Fault Monitoring Grid Monitoring Enclosure Protect Level General Data Dimensions (W x H x D, mm) Weight (kg) Topology Cooling Concept Relative Humidity Operating Temperature Range (°C)		GMTH4KWE	GMTH5KWE Y Y Y Y Y Y Y Y IP GMTH5KWE 370 x 497 x 192 / 20.8 Transfo Convection 0-1 -25 tr	es e	GMTH8KWE	GMTH10KWE						
Reverse Polarity Protection Over Current / Voltage Protection Anti-islanding Protection AC Short-ciruit Protection Leakage Current Detection Ground Fault Monitoring Grid Monitoring Enclosure Protect Level General Data Dimensions (W x H x D, mm) Weight (kg) Topology Cooling Concept Relative Humidity Operating Temperature Range (°C) Operating Altitude (m)		GMTH4KWE	GMTH5KWE Y Y Y Y Y Y Y IP GMTH5KWE 370 x 497 x 192 / 20.8 Transfo convection 0-1 -25 to	es e	GMTH8KWE	GMTH10KWE						
Reverse Polarity Protection Over Current / Voltage Protection Anti-islanding Protection AC Short-ciruit Protection Leakage Current Detection Ground Fault Monitoring Grid Monitoring Enclosure Protect Level General Data Dimensions (W x H x D, mm) Weight (kg) Topology Cooling Concept Relative Humidity Operating Temperature Range (°C) Operating Altitude (m) Noise Emission (dB)		GMTH4KWE	GMTH5KWE Y Y Y Y Y Y Y Y IP GMTH5KWE 370 x 497 x 192 / 20.8 Transfo convection 0-1 -25 tr <4	GMTH6KWE es	GMTH8KWE	GMTH10KWE						
Reverse Polarity Protection Over Current / Voltage Protection Anti-islanding Protection AC Short-ciruit Protection Leakage Current Detection Ground Fault Monitoring Enclosure Protect Level General Data Dimensions (W x H x D, mm) Weight (kg) Topology Cooling Concept Relative Humidity Operating Temperature Range (°C) Operating Altitude (m) Noise Emission (dB) Standby Consumption (W)		GMTH4KWE	GMTH5KWE Y Y Y Y Y Y Y Y IP GMTH5KWE 370 x 497 x 192 / 20.8 Transfo Convection 0-1 -25 to	GMTH6KWE es	GMTH8KWE n Intellig	GMTH10KWE						
Reverse Polarity Protection Over Current / Voltage Protection Anti-islanding Protection AC Short-ciruit Protection Leakage Current Detection Ground Fault Monitoring Enclosure Protect Level General Data Dimensions (W x H x D, mm) Weight (kg) Topology Cooling Concept Relative Humidity Operating Temperature Range (°C) Operating Altitude (m) Noise Emission (dB) Standby Consumption (W) Display & Communication Interfaces	GMTH3KWE	GMTH4KWE Natural C	GMTH5KWE Y Y Y Y Y Y Y Y Y IP GMTH5KWE 370 x 497 x 192 / 20.8 Transfo Convection 0-1 -25 tr <4 < LCD, LED, RS485, C	es e	GMTH8KWE n Intellig	GMTH10KWE GMTH10KWE						
Reverse Polarity Protection Over Current / Voltage Protection Anti-islanding Protection AC Short-ciruit Protection Leakage Current Detection Ground Fault Monitoring Enclosure Protect Level General Data Dimensions (W x H x D, mm) Weight (kg) Topology Cooling Concept Relative Humidity Operating Temperature Range (°C) Operating Altitude (m) Noise Emission (dB) Standby Consumption (W)	GMTH3KWE	GMTH4KWE	GMTH5KWE Y Y Y Y Y Y Y Y Y Y P GMTH5KWE 370 x 497 x 192 / 20.8 Transfo Convection 0-1 -25 to <4 < LCD, LED, RS485, CO //C11, AS4777.2, VE	es e	GMTH8KWE n Intellig	GMTH10KWE GMTH10KWE						

Technical Data

Technical Data									
PV Input	GMTH12KWE	GMTH15KWE	GMTH17KWE	GMTH20KWE	GMTH25KWE	GMTH30KWI			
Max. DC Input Power (kW)	18	22.5	25.5	30	37.5	45			
Max. PV Voltage (V)			1	000					
Rated DC Input Voltage (V)			6	520					
DC Input Voltage Range (V)	150-1000								
MPPT Voltage Range (V)	150-850								
Full MPPT Range(V)	500-850								
Start-up Voltage (V)	160								
Max. DC Input Current (A)	20x2 20+32 32x2 40x2								
Max. Short Current(A)	30x2	30+48 48x2			60×2				
No. of MPPT Tracker / Strings	2/2	2/3	2	2/4					
Battery Port	GMTH12KWE	GMTH15KWE	GMTH17KWE	GMTH20KWE	GMTH25KWE	GMTH30KW			
Battery Nominal Voltage (V)	450	500	400	500	500	550			
Battery Voltage Range (V)			150)-800					
Max. Charge/Discharge Current (A)	30	50	50	50	60	60			
Max. Charge/Discharge Power (kW)	12	15	17	20	25	30			
Charging Curve			3 S	tages					
Compatible Battery Type	Li-ion / Lead-acid / Sodium metal chloride battery								
AC Grid	GMTH12KWE	GMTH15KWE	GMTH17KWE	GMTH20KWE	GMTH25KWE	GMTH30KW			
Nominal AC Output Power (kW)	12	15	17	20	25	30			
Max. AC Input/Output Power (kVA)	18 / 13.2	22.5 / 16.5	25.5 / 18.7	30 / 22	37.5 / 27.5	45 / 33			
Max. AC Output Current (A)	21.5	27	30	32	40	48			
Nominal AC Voltage (V)	230/400								
Nominal AC Frenquency (Hz)			50	0/60					
Power Factor			1 (-0.8-0.8	3) adjustable					
Current THD (%)			•	3%					
AC Load Output (Back-up)	GMTH12KWE	GMTH15KWE	GMTH17KWE	GMTH20KWE	GMTH25KWE	GMTH30KW			
Nominal Output Power (VA)	12000	15000	17000	20000	25000	30000			
Nominal Output Voltage (V))/400					
Nominal Output Frequency (Hz))/60					
Nominal Output Current (A)	17.4	21.8	24.7	29	36.3	43.5			
Peak Output Power	13200VA, 60s	16500VA, 60s	18700VA, 60s	22000VA, 60s	27500VA, 60s	33000VA, 60			
THDV (with linear load)			-	3%					
Switching Time (ms)				10					
Efficiency	GMTH12KWE	GMTH15KWE	GMTH17KWE	GMTH20KWE	GMTH25KWF	GMTH30KW			
Europe Efficiency		50%	1	.80%	98.00%	98.10%			
	37.:		.30%	.60 %	1	3.50%			
Max. Efficiency Battery Charge/Discharge Efficiency		30		.00%	30	5.50%			
Protection	GMTH12KWE	GMTH15KWE	GMTH17KWE	GMTH20KWE	GMTH25KWE	GMTH30KW			
Reverse Polarity Protection	GWITHIZKWE	GIVITHISKWE			GIVITHZSKVVE	GWIHSOKW			
Over Current / Voltage Protection	Yes								
Anti-islanding Protection	Yes								
AC Short-ciruit Protection	Yes								
Leakage Current Detection	Yes								
Ground Fault Monitoring	Yes								
Grid Monitoring	Yes Yes								
Grid Mornitoring				P65					
Enclosure Protect Level				0.5		CRATUSOKA			
Enclosure Protect Level	GMTH12KWE	GMTH15KWE		GMTH20KWE	GMTH25KWE	- WI - PARIZATION			
General Data	GMTH12KWE	GMTH15KWE	GMTH17KWE	GMTH20KWE	GMTH25KWE	GWITHSUKW			
General Data Dimensions (W x H x D, mm)	370x497x192/558x535x260		GMTH17KWE	GMTH20KWE 558 x 535 x 260 mr	m				
General Data Dimensions (W x H x D, mm) Weight (kg)			GMTH17KWE 29kg	558 x 535 x 260 mr	m	6kg			
General Data Dimensions (W x H x D, mm) Weight (kg) Topology	370x497x192/558x535x260		GMTH17KWE 29kg Transfo	558 x 535 x 260 mr	m				
General Data Dimensions (W x H x D, mm) Weight (kg) Topology Cooling Concept	370x497x192/558x535x260		29kg Transfo	558 x 535 x 260 mr ormerless gent Fan	m				
General Data Dimensions (W x H x D, mm) Weight (kg) Topology Cooling Concept Relative Humidity	370x497x192/558x535x260		29kg Transfo Intellig	558 x 535 x 260 mi ormerless gent Fan 100%	m				
General Data Dimensions (W x H x D, mm) Weight (kg) Topology Cooling Concept Relative Humidity Operating Temperature Range (°C)	370x497x192/558x535x260		29kg Transfo Intellig 0-2	558 x 535 x 260 mi ormerless gent Fan L00% o 60 °C	m				
General Data Dimensions (W x H x D, mm) Weight (kg) Topology Cooling Concept Relative Humidity Operating Temperature Range (°C) Operating Altitude (m)	370x497x192/558x535x260		29kg Transfo Intellig 0-2 -25 t	558 x 535 x 260 mi ormerless gent Fan 100% o 60 °C	m				
General Data Dimensions (W x H x D, mm) Weight (kg) Topology Cooling Concept Relative Humidity Operating Temperature Range (°C) Operating Altitude (m) Noise Emission (dB)	370x497x192/558x535x260		29kg Transfo Intellig 0-2 -25 t	558 x 535 x 260 mi ormerless gent Fan 100% o 60 °C 1000	m				
General Data Dimensions (W x H x D, mm) Weight (kg) Topology Cooling Concept Relative Humidity Operating Temperature Range (°C) Operating Altitude (m) Noise Emission (dB) Standby Consumption (W)	370x497x192/558x535x260		29kg Transfo Intellig 0-2 -25 t	558 x 535 x 260 mi ormerless gent Fan 100% o 60 °C 1000 40	m 3				
General Data Dimensions (W x H x D, mm) Weight (kg) Topology Cooling Concept Relative Humidity Operating Temperature Range (°C) Operating Altitude (m) Noise Emission (dB)	370x497x192/558x535x260 20.8/29kg		29kg Transfo Intellig 0-2 -25 t	558 x 535 x 260 mi ormerless gent Fan 100% o 60 °C 1000	m 3				

