



GMTL3-17KWS

Solar Inverter Series



Three Phase | 3-17KW | Low 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		GMTL3KWS	GMTL4KWS	GMTL5KWS	GMTL6KWS	GMTL8KWS
Max. DC Power (W)		5100	6000	7500	9000	12000
Max. DC Voltage (V)				750		
MPPT Voltage Range (V)				150-600		
MPPT Full Power Voltage Range (V)				220-600		
Rated Input Voltage (V)				380		
Start-up Voltage (V)				150		
Max. Input Current (A)			15×2			20×32
Max. Short Current (A)			25×2			30×48
No. of MPP Tracker / No. of PV String			2/2			2/3
Input Connector Type				MC4		
AC Output Data		GMTL3KWS	GMTL4KWS	GMTL5KWS	GMTL6KWS	GMTL8KWS
Max. Output Power (VA)		3300	4400	5500	6600	8800
Nominal Output Power (W)		3000	4000	5000	6000	8000
Max. Output Current (A)		10.5	13.5	17	21.5	27
Nominal Output Voltage (V)				3P+N+PE/3P+PE 133/220 or 230		
Grid Voltage Range				180Vac-260Vac (According to local standard)		
Nominal Output Frequency (Hz)				50/60		
Grid Frequency Range				45-55Hz/55-65Hz (According to local standard)		
Output Power Factor				1 default (adjustable from 0.8 leading to 0.8 lagging)		
Output Current THD				<3%		
Efficiency		GMTL3KWS	GMTL4KWS	GMTL5KWS	GMTL6KWS	GMTL8KWS
Max. Efficiency		97.50%			98.00%	
Euro Efficiency		97.00%		97.40%		97.50%
Protection		GMTL3KWS	GMTL4KWS	GMTL5KWS	GMTL6KWS	GMTL8KWS
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		GMTL3KWS	GMTL4KWS	GMTL5KWS	GMTL6KWS	GMTL8KWS
Dimensions (W x H x D, mm)		370×510×167		370×510×192		
Weight (kg)		16		16		17
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			<40	
Night Power Consumption (W)				<1		
Max. Operation Altitude (m)				2000		

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

Technical Data

PV Input Data	GMTL10KWS	GMTL12KWS	GMTL15KWS	GMTL17KWS
Max. DC Power (W)	15000	18000	22500	25500
Max. DC Voltage (V)	750			
MPPT Voltage Range (V)	150-600			200-700
MPPT Full Power Voltage Range (V)	220-600		330-600	310-600
Rated Input Voltage (V)	380	400		
Start-up Voltage (V)	150			
Max. Input Current (A)	32*2			38*2
Max. Short Current (A)	48*2			
No. of MPP Tracker / No. of PV String	2/4			2/5
Input Connector Type	MC4			
AC Output Data	GMTL10KWS	GMTL12KWS	GMTL15KWS	GMTL17KWS
Max. Output Power (VA)	11000	13200	16500	18700
Nominal Output Power (W)	10000	12000	15000	17000
Max. Output Current (A)	30	32	40	48
Nominal Output Voltage (V)	3P+N+PE/3P+PE 133/220 or 230			
Grid Voltage Range	180Vac-260Vac (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	GMTL10KWS	GMTL12KWS	GMTL15KWS	GMTL17KWS
Max. Efficiency	98.10%	98.00%	98.40%	98.40%
Euro Efficiency	97.50%	97.80%	97.80%	98.00%
Protection	GMTL10KWS	GMTL12KWS	GMTL15KWS	GMTL17KWS
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	GMTL10KWS	GMTL12KWS	GMTL15KWS	GMTL17KWS
Dimensions (W x H x D, mm)	370*535*192			450*485*210
Weight (kg)	19			26
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)	2000			
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			