

LVSMT Series

12-35kW | Three Phase
Up to 6 MPPTs

GoodWe's LVSMT Series three-phase inverter is designed with low voltage power input, and is an ideal choice for commercial installations. Developed as an efficient response to South American market needs for low-voltage inverters above 10kW, this series is applicable to special grid voltage ranges within the region. With the GoodWe LVSMT Series inverter, the system configuration can be simplified by avoiding the installation of an expensive transformer, greatly reducing the initial investment costs of the system.



Smart Control & Monitoring

- String level monitoring
- Power line communication



High Power Generation for High Returns

- Max. Efficiency up to 98.8%
- 130% DC input oversizing



Superb Safety & Reliability

- Optional AFCI
- IP65 ingress protection



Friendly & Thoughtful Design

- 200V-650V wide MPPT voltage range
- Fuse-free design

Technical Data	GW12KLV-MT	GW15KLV-MT	GW20KLV-MT	GW30KLS-MT	GW35KLS-MT
Input					
Max. Input Voltage (V)	800				
MPPT Operating Voltage Range (V)	200 ~ 650				
Start-up Voltage (V)	180				
Nominal Input Voltage (V)	370				
Max. Input Current per MPPT (A)	30				
Max. Short Circuit Current per MPPT (A)	37.5				
Number of MPP Trackers	3	3	3	5	6
Number of Strings per MPPT	2				
Output					
Nominal Output Power (kW)	12.0	15.0	20.7	30.0	35.0
Nominal Output Apparent Power (kVA)	12.0	15.0	20.7	30.0	35.0
Max. AC Active Power (kW)	11.3@208V, 12.0@220V, 13.1@240V	14.4@208V, 15.0@220V, 16.6@240V	19.6@208V, 20.7@220V, 22.6@240V	30.0	35.0
Max. AC Apparent Power (kVA)	13.1	16.6	22.6	30.0	35.0
Nominal Output Voltage (V)	220, 3L / N / PE or 3L / PE				
Output Voltage Range (V)	150 ~ 300	150 ~ 300	150 ~ 300	176 ~ 242	176 ~ 242
Nominal AC Grid Frequency (Hz)	50 / 60				
AC Grid Frequency Range (Hz)	47.5 ~ 51.5 / 57.0 ~ 61.8				
Max. Output Current (A)	31.5	40.0	54.5	80.0	96.0
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				
Max. Total Harmonic Distortion	<3%				
Efficiency					
Max. Efficiency	98.7%	98.7%	98.8%	98.0%	98.0%
European Efficiency	98.4%	98.5%	98.5%	97.7%	97.7%
Protection					
PV String Current Monitoring	Integrated				
PV Insulation Resistance Detection	Integrated				
Residual Current Monitoring	Integrated				
PV Reverse Polarity Protection	Integrated				
Anti-islanding Protection	Integrated				
AC Overcurrent Protection	Integrated				
AC Short Circuit Protection	Integrated				
AC Overvoltage Protection	Integrated				
DC Switch	Integrated				
DC Surge Protection	Type III (Type II Optional)			Type II (Type I + II Optional)	
AC Surge Protection	Type III (Type II Optional)			Type II	
AFCI	Optional				
Remote Shutdown	Optional				
PID Recovery	Optional				
General Data					
Operating Temperature Range (°C)	-30 ~ +60				
Relative Humidity	0 ~ 100%				
Max. Operating Altitude (m)	3000				
Cooling Method	Smart Fan Cooling				
User Interface	LED, LCD (Optional), WLAN + APP				
Communication	RS485, WiFi or 4G or PLC (Optional) ^{*1}				
Communication Protocols	Modbus-RTU (SunSpec Compliant)				
Weight (kg)	40.0	40.0	40.0	55.0	55.0
Dimension (W x H x D mm)	480 x 590 x 200			520 x 660 x 220	
Noise Emission (dB)	<60	<60	<60	<65	<65
Topology	Non-isolated				
Self-consumption at Night (W)	<1				
Ingress Protection Rating	IP65				
DC Connector	MC4 (4 ~ 6mm ²)				
AC Connector	OT / DT Terminal (Max.25mm ²)			OT / DT Terminal (Max.50mm ²)	

*1: For Brazil Communication is RS485, WiFi, USB, PLC (Optional).

*: Please visit GoodWe website for the latest certificates.