

LVMT Series

30-50kW | Three Phase
4 MPPTs

Developed as an efficient response to South American market needs for low-voltage inverters, GoodWe's LVMT series inverter is suitable for medium and large-scale commercial rooftops or ground-mounted solar PV systems where maximum versatility and profitability are important. With its compact design and power boost function, GoodWe's LVMT series can provide an extremely high efficiency of 98.8%, thus offering a faster return on investment.



String level monitoring



Up to 180% DC input oversizing



Up to 110% AC output overloading



Up to 98.8% Max. Efficiency



Full-load running at 50°C



Power line communication

Technical Data	GW30KLV-MT	GW35KLV-MT	GW50KLV-MT
Input			
Max. Input Voltage (V)		800	
MPPT Operating Voltage Range (V)		200 ~ 650	
Start-up Voltage (V)		200	
Nominal Input Voltage (V)		370	
Max. Input Current per MPPT (A)	33 / 33 / 22 / 22	33	44
Max. Short Circuit Current per MPPT (A)	41.5 / 41.5 / 27.5 / 27.5	41.5	55
Number of MPP Trackers		4	
Number of Strings per MPPT	3 / 3 / 2 / 2	3	4
Output			
Nominal Output Power (W)	30000	36000	50000
Nominal Output Apparent Power (VA)	30000	36000	50000
Max. AC Active Power (W)	28800@208V; 30000@220V; 33000@240V;	34500@208V; 36000@220V; 39900@240V;	47300@208V; 50000@220V; 55000@240V;
Max. AC Apparent Power (VA)	33000	39900	55000
Nominal Output Voltage (V)		220, 3L / N / PE or 3L / PE	
Nominal AC Grid Frequency (Hz)		50 / 60	
Max. Output Current (A)	80.0	96.0	133.0
Power Factor		~1 (Adjustable from 0.8 leading to 0.8 lagging)	
Max. Total Harmonic Distortion		<3%	
Efficiency			
Max. Efficiency	98.7%	98.8%	98.7%
European Efficiency	98.3%	98.5%	98.3%
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		Optional	
DC Surge Protection		Type II	
AC Surge Protection		Type II	
AFCI		Optional	
PID Recovery		Optional	
General Data			
Operating Temperature Range (°C)		-30 ~ +60	
Relative Humidity		0 ~ 100%	
Max. Operating Altitude (m)		4000	
Cooling Method		Fan Cooling	
User Interface	LED, LCD (Optional), WiFi + APP	LED, LCD (Optional), WiFi + APP	LED, WiFi + APP
Communication	RS485, WiFi (Optional)	RS485, WiFi (Optional)	RS485, WiFi, PLC (Optional)
Weight (kg)	59.0	64.0	70.0
Dimension (W x H x D mm)	586 x 788 x 264	586 x 788 x 264	586 x 788 x 267
Topology		Non-isolated	
Self-consumption at Night (W)		<1	
Ingress Protection Rating		IP65	

*: Please visit GoodWe website for the latest certificates.