

LV SMT/SMT Series Datasheet



Technical Data

GW12KLV-MT GW15KLV-MT GW20KLV-MT GW25K-MT GW30K-MT GW36K-MT

PV String Input Data

Max. DC Input Power (Wp)	15600	19500	26000	32500	39000	42900
Max. DC Input Voltage (V)	800	800	800	1100	1100	1100
MPPT Range (V)	200~650	200~650	200~650	200~950	200~950	200~950
Start-up Voltage (V)	180	180	180	180	180	180
Nominal DC Input Voltage (V)	370	370	370	600	600	600
Max. Input Current (A)	25/25/25	25/25/25	25/25/25	25/25/25	25/25/25	25/25/25
Max. Short Current (A)	31.3/31.3/31.3/31.3	31.3/31.3/31.3/31.3	31.3/31.3/31.3/31.3	31.3/31.3/31.3	31.3/31.3/31.3	31.3/31.3/31.3
No. of MPP Trackers	3	3	3	3	3	3
No. of Input Strings per Tracker	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2

AC Output Data

Nominal Output Power (W)	12000	15000	20700	25000	30000	36000* ¹
Max. Output Power (W)	11300@208VAC 12000@220VAC 13100@240VAC	14400@208VAC 15000@220VAC 16600@240VAC	19600@208VAC 20700@220VAC 22600@240VAC	27500* ²	33000* ²	36000* ²
Max. Output Apparent Power (VA)	13100	16600	22600	27500* ³	33000* ³	36000* ³
Nominal Output Voltage (V)	150-300	150-300	150-300	400, 3L/N/PE or 3L/PE		
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	31.5	40	54.5	40	48	53.3
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)					
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%	<3%

Efficiency

Max. Efficiency	98.7%	98.7%	98.8%	98.7%	98.8%	98.8%
European Efficiency	>98.4%	>98.5%	>98.5%	>98.4%	>98.5%	>98.5%

Protection

Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
PV String Current Monitoring	-	-	-	Integrated	Integrated	Integrated
Anti-PID Function for Module	-	-	-	Optional	Optional	Optional
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	Type III (Type II optional)					
AC Surge Protection	Type III (Type II optional)					
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AFCI	Optional	Optional	Optional	Optional	Optional	Optional
Terminal Temperature Detection	Optional	Optional	Optional	Optional	Optional	Optional

General Data

Operating Temperature Range (°C)	-30~60	-30~60	-30~60	-30~60	-30~60	-30~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤3000	≤3000	≤3000	≤3000	≤3000	≤3000
Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling
User Interface	LCD & LED or APP & LED					
Communication	RS485 or WiFi or GPRS or PLC					
Weight (kg)	40	40	40	40	40	40
Size (Width*Height*Depth mm)	480*590*200	480*590*200	480*590*200	480*590*200	480*590*200	480*590*200
Protection Degree	IP65	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1	<1
Topology	Transformerless					

*¹: 33kW for Italy, 36kW for other country.

*²: For Belgium Max. Output Power (W): GW25K-MT is 25000; GW30K-MT is 30000; GW36K-MT is 36000.

*³: For Belgium Max. Output Apparent Power (VA): GW25K-MT is 25000; GW30K-MT is 30000; GW36K-MT is 36000.

*: Please visit GoodWe website for the latest certificates.