

# LV SMT Series Datasheet



Technical Data	GW12KLV-MT	GW15KLV-MT	GW20KLV-MT
<b>PV String Input Data</b>			
Max. DC Input Power (Wp)	15600	19500	26000
Max. DC Input Voltage (V)	800	800	800
MPPT Range (V)	200~650	200~650	200~650
Start-up Voltage (V)	180	180	180
Nominal DC Input Voltage (V)	370	370	370
Max. Input Current (A)	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
No. of MPP Trackers	3	3	3
No. of Input Strings per Tracker	2/2/2	2/2/2	2/2/2
<b>AC Output Data</b>			
Nominal Output Power (W)	12000	15000	20700
Max. Output Power (W)	11300@208VAC 12000@220VAC 13100@240VAC	14400@208VAC 15000@220VAC 16600@240VAC	19600@208VAC 20700@220VAC 22600@240VAC
Max. Output Apparent Power (VA)	13100	16600	22600
Nominal Output Voltage (V)	150-300	150-300	150-300
Nominal Output Frequency (Hz)	50/60	50/60	50/60
Max. Output Current (A)	31.5	40	54.5
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Output THDi (@Nominal Output)	<3%	<3%	<3%
<b>Efficiency</b>			
Max. Efficiency	98.7%	98.7%	98.8%
European Efficiency	>98.4%	>98.5%	>98.5%
<b>Protection</b>			
Anti-islanding Protection	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated
PV String Current Monitoring	-	-	-
Anti-PID Function for Module	-	-	-
Insulation Resistor Detection	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
Output Over Current Protection	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated
AFCI	Optional	Optional	Optional
Terminal Temperature Detection	Optional	Optional	Optional
<b>General Data</b>			
Operating Temperature Range (°C)	-30~60	-30~60	-30~60
Relative Humidity	0~100%	0~100%	0~100%
Operating Altitude (m)	≤3000	≤3000	≤3000
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
Size (Width*Height*Depth mm)	480*590*200	480*590*200	480*590*200
Protection Degree	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1
Topology	Transformerless		

\*: Please visit GoodWe website for the latest certificates.