

LV MT/MT Series Datasheet



Technical Data

GW30KLV-MT GW35KLV-MT GW50KLV-MT GW50KN-MT GW60KN-MT GW50KBF-MT

DC Input Data

Max. PV Power (W)	54000	63000	90000	65000	80000	65000
Max. DC Input Voltage (V)	800	800	800	1100	1100	1100
MPPT Range (V)	200~650	200~650	200~650	200~1000	200~1000	200~1000
Starting Voltage (V)	200	200	200	200	200	200
Min. Feed-in Voltage (V)	210	210	210	210	210	210
Nominal DC Input Voltage (V)	370	370	370	620	620	620
Max. Input Current (A)	30/30/20/20	30/30/30/30	44/44/44/44	33/33/22/22	33/33/33/33	30/30/30/30
Max. Short Current (A)	38/38/25/25	38/38/38/38	55/55/55/55	41.5/41.5/27.5/27.5	41.5/41.5/41.5/41.5	37.5/37.5/37.5/37.5
No. of MPP Trackers	4	4	4	4	4	4
No. of Input Strings per Tracker	3/3/2/2	3/3/3/3	4/4/4/4	3/3/2/2	3/3/3/3	2/2/2/2

AC Output Data

Nominal Output Power (W)	30000	36000	50000	50000	60000	50000
Max. Output Power (W)	28800@208VAC 30000@220VAC 33000@240VAC	34500@208VAC 36000@220VAC 39900@240VAC	47300@208VAC 50000@220VAC 55000@240VAC	55000;57500 @415Vac* ¹	66000;69000 @415Vac* ¹	55000;57500 @415Vac* ¹
Max. Output Apparent Power (VA)	33000	39900	55000	55000;57500 @415Vac* ²	66000;69000 @415Vac* ²	55000;57500 @415Vac* ²
Nominal Output Voltage (V)	150-300	150-300	150-300	400, default 3L+N+PE, 3L+PE optional in settings		
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	80	96	133	80	96	80
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%	98.8%	98.7%	98.7%	98.8%	98.8%
European Efficiency	98.3%	98.5%	98.3%	98.3%	98.5%	98.3%

Protection

PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-Islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Insulation monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC fuse	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-PID Function for Module	Optional	Optional	Optional	Optional	Optional	Optional
DC SPD Protection	Integrated (Type II)					
AC SPD Protection	Integrated (Type II)					
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated

General Data

Ambient 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)	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling
Display	LCD or WiFi+APP		LED, WiFi+APP		LCD or WiFi+APP	
Communication	RS485 or WiFi		RS485 & WiFi, PLC(Optional)		RS485 or WiFi or PLC	
Weight (kg)	59	64	70	59	64	60
Dimension (Width*Height*Depth mm)	586*788*264	586*788*264	586*788*267	586*788*264	586*788*264	586*788*264
Protection Degree	IP65	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1	<1
Topology	Transformerless					

*¹: For Belgium Max. Output Power (W): GW50N-MT is 50000; GW60KN-MT is 60000; GW50KBF-MT is 50000.

*²: For Belgium Max. Output Apparent Power (VA): GW50N-MT is 50000; GW60KN-MT is 60000; GW50KBF-MT is 50000.

*: Please visit GoodWe website for the latest certificates.

MT Series Datasheet



Technical Data

GW60KBF-MT GW75KBF-MT GW80KBF-MT GW70KHV-MT GW80KHV-MT GW75K-MT GW80K-MT

DC Input Data

Max. PV Power (W)	80000	97500	104000	91000	120000	112500	120000
Max. DC Input Voltage (V)	1100	1100	1100	1100	1100	1100	1100
MPPT Range (V)	200~1000	200~1000	200~1000	200~1000	200~1000	200~1000	200~1000
Starting Voltage (V)	200	200	200	200	200	200	200
Min. Feed-in Voltage (V)	210	210	210	210	210	210	210
Nominal DC Input Voltage (V)	620	750	800	750	800	600	620
Max. Input Current (A)	44/44/44/44	44/44/44/44	39/39/39/39	33/33/33/33	44/44/44/44	44/44/44/44	44/44/44/44
Max. Short Current (A)	55/55/55/55	55/55/55/55	54.8/54.8/54.8/54.8	41.5/41.5/41.5/41.5	55/55/55/55	55/55/55/55	55/55/55/55
No. of MPP Trackers	4	4	4	4	4	4	4
No. of Input Strings per Tracker	3/3/3/3	3/3/3/3	3/3/3/3	3/3/3/3	3/3/3/3	4/4/4/4(Standard) 3/3/3/3(Optional, Support bifacial module)	4/4/4/4(Standard) 3/3/3/3(Optional, Support bifacial module)

AC Output Data

Nominal Output Power (W)	60000	75000	80000	70000	80000	75000	80000
Max. Output Power (W)	66000:69000 @415Vac*1	82500*1	88000*1	77000*1	88000*1	75000	88000*1
Max. Output Apparent Power (VA)	66000:69000 @415Vac*2	82500*2	88000*2	77000*2	88000*2	75000	88000*2
Nominal Output Voltage (V)	400, default 3L+N+PE, 3L+PE optional in settings	500, 3L/PE	540, 3L/PE	500, 3L/PE	540, 3L/PE	380/415	400, default 3L+N+PE, 3L+PE optional in settings
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	96	95.3	94.1	89	94.1	133	133
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)						
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%	<3%	<3%

Efficiency

Max. Efficiency	98.8%	99.0%	99.0%	99.0%	99.0%	98.8%	98.8%
European Efficiency	98.3%	98.4%	98.4%	98.4%	98.4%	98.3%	98.3%

Protection

PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-Islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Insulation monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC fuse	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-PID Function for Module	Optional	Optional	Optional	Optional	Optional	Optional	Optional
DC SPD Protection	Integrated (Type II)						
AC SPD Protection	Integrated (Type II)						
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Humidity Monitoring	NA	NA	NA	NA	NA	Integrated	Integrated

General Data

Ambient Temperature Range (°C)	-30~60	-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%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling
Display	LED, WiFi+APP			LCD or WiFi+APP		LED, WiFi+APP	LED, WiFi+APP
Communication	RS485 or WIFI or PLC					RS485 & Wi-Fi, PLC(Optional)	RS485 & Wi-Fi, PLC(Optional)
Weight (kg)	65	65	65	60	65	70	70
Dimension (Width*Height*Depth:mm)	586*788*267	586*788*267	586*788*267	586*788*264	586*788*264	586*788*267	586*788*267
Protection Degree	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1	<1	<1
Topology	Transformerless						

*1: For Belgium Max. Output Power (W): GW60KBF-MT is 60000; GW75KBF-MT is 75000; GW80KBF-MT is 80000; GW70KHV-MT is 70000; GW80KHV-MT is 80000; GW80K-MT is 80000.

*2: For Belgium Max. Output Apparent Power (VA): ; GW60KBF-MT is 60000; GW75KBF-MT is 75000; GW80KBF-MT is 80000; GW70KHV-MT is 70000; GW80KHV-MT is 80000; GW80K-MT is 80000.

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