

HT Series Datasheet



Technical Data	GW73KLV-HT	GW75K-HT	GW80K-HT	GW100K-HT	GW110K-HT	GW120K-HT	GW136K-HTH
Input							
Max. DC Input Power (kW)	112.5	112.5	120	150	165	180	205
Max. DC Input Voltage (V)	800	1100	1100	1100	1100	1100	1100
MPPT Operating Voltage Range (V)	180~650	180~1000	180~1000	180~1000	180~1000	180~1000	180~1000
Start-up Voltage (V)	200	200	200	200	200	200	200
MPPT Range for Full Load	250~650	500~850	500~850	500~850	500~850	500~850	500~850
Nominal Input Voltage (V)	370	600	600	600	600	600	750
Max. Backfeed Current to The Array (A)	0	0	0	0	0	0	0
Max. Input Current per MPPT (A)	30	30	30	30	30	30	30
Max. Short Circuit Current per MPPT (A)	45	45	45	45	45	45	45
Number of MPPT	12	10	10	10	12	12	12
Number of Strings per MPPT	2	2	2	2	2	2	2
Output							
Nominal Output Power (kW)	73	75	80	100	110	120	136
Max. AC Active Power (kW)	73@220V; 69@208V; 75@230V	75	88	110	121	132	150
Max. AC Apparent Power (kVA)	75	75	88	110	121	132	150
Nominal Output Voltage (V)	220V, 3L/N/PE or 3L/PE	380V/400V, 3L/N/PE or 3L/PE			400V, 3L/N/PE or 3L/PE		500V, 3L/PE
Nominal AC Grid Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	192	125.3	134	167	175.5	191.3	173.2
Max. Output Fault Current (peak and duration) (A)	364@5μs	364@5μs	364@5μs	364@5μs	364@5μs	364@5μs	364@5μs
Inrush Current (Peak and Duration) (A)	120@1μs	120@1μs	120@1μs	120@1μs	120@1μs	120@1μs	120@1μs
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)						
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency							
Max. Efficiency	98.4%	98.6%	98.6%	99.1%	99.0%	98.9%	99.0%
European Efficiency	98.1%	98.3%	98.3%	98.7%	98.4%	98.6%	98.8%
Protection							
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Internal Humidity Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Surge Arrester	Type II (Type I optional)						
AC Surge Arrester	Type II (Type I optional)						
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Arc Fault Circuit Interrupter	Optional	Optional	Optional	Optional	Optional	Optional	Optional
PID Recovery	Optional	Optional	Optional	Optional	Optional	Optional	Optional
General Data							
Operating Temperature Range (°C)	-30 ~ 60						
Relative Humidity	0~100%						
Max. Operating Altitude (m)	5000 (>4000 derating)						
Cooling Method	Smart Fan Cooling						
Display	LED, LCD (Optional), Bluetooth+APP						
Communication	RS485 / PLC / WiFi						
Weight (Kg)	98.5						
Size (Width × Height × Depth mm)	1008 × 678 × 343						
DC Connector	MC4 (Max. 6 mm ²)						
AC Connector	OT / DT terminal (Max. 300 mm ²)						
Ingress Protection Rating	IP66						
Night Self Consumption (W)	<2						
Overvoltage Category	PVII/ACIII						
Protective Class	I						
Noise Emission (dB)	<70						
Topology	Transformerless						

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