



CL Series Datasheet

Technical Data	CL-HI100K	CL-HI110K	CL-HI120K	CL-HI136K
PV String Input Data				
Max. DC Input Power (kW)	150	165	180	205
Max. DC Input Voltage (V)	1100	1100	1100	1100
MPPT Range (V)	180~1000	180~1000	180~1000	180~1000
Min. Start-up Voltage (V)	200	200	200	200
MPPT Range for Full Load (V)	470~850	470~850	470~850	620~850
Nominal DC Input Voltage (V)	600	600	600	750
Max. Input Current (A)	10*30A	10*30A	12*30A	12*30A
Max. Short Current (A)	10*45A	10*45A	12*45A	12*45A
No. of MPP Trackers	10	10	12	12
No. of Input Strings per Tracker	2	2	2	2
AC Output Data				
Nominal Output Power (kW)	100	110	120	136
Max. Output Power (kW)	110	121	132	150
Max. Output Apparent Power (kVA)	110	121	132	150
Nominal Output Voltage (V)	400, 3L/N/PE or 3L/PE	400, 3L/N/PE or 3L/PE	400, 3L/N/PE or 3L/PE	500V, 3L/PE
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60
Max. Output Current (A)	167	175.5	191.3	173.2A
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%
Efficiency				
Max. Efficiency	98.6%	98.6%	98.6%	99.0%
European Efficiency	98.3%	98.3%	98.3%	98.5%
Protection				
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated
Internal Humidity Detection	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated
DC SPD Protection	Type II (Type I optional)			
AC SPD Protection	Type II (Type I optional)			
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated
Arc Fault Protection	Optional	Optional	Optional	Optional
Emergency Power off	Optional	Optional	Optional	Optional
AC Terminal Over-temperature Protection	Optional	Optional	Optional	Optional
PID Recovery	Optional	Optional	Optional	Optional
General Data				
Operating Temperature Range (°C)	-30~60	-30~60	-30~60	-30~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000
Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling
Display	LED(Standard), LCD(Optional), Bluetooth+APP			
Communication	RS485 or PLC or WiFi	RS485 or PLC or WiFi	RS485 or PLC or WiFi	RS485 or PLC or WiFi
Weight (kg)	93.5	93.5	98.5	98.5
Dimension (Width*Height*Depth mm)	1005*676*340	1005*676*340	1005*676*340	1005*676*340
Protection Degree	IP66	IP66	IP66	IP66
Night Self Consumption (W)	<2	<2	<2	<2
Topology	Transformerless			