

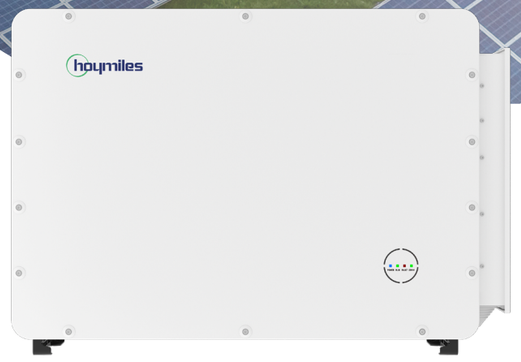

GRID-CONNECTED PV INVERTER

HINV350HX-G2 Series

1500V high power density PV inverter is suitable for many complex and harsh scenarios.

Advanced topology and software control ensure the high efficiency, reliability, and stability of product operation.

Innovative grid-connected algorithms and broadband PLC technology enable fast response to grid dispatching and effectively support the grid.

- 6*75A MPPT, compatible with 182&210mm module.
- Power line communication (PLC).
- Max. Efficiency 99.02%, EU Efficiency 98.82%.
- Level 4 I-V Curve Diagnostic.
- SCR ≥ 0.99 stable operation in extremely weak grid.
- IP66 and high anti-corrosion.
- PV string monitoring and intelligent breaking technology.
- Multi-Safety Protection Design including AFCI

Region: Global Version: REV1.3

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Technical Specifications

Model	HINV350HX-G2	HINV330HX-G2	HINV320HX-G2	HINV300HX-G2
Input				
Max. PV Input Voltage	1500 V			
MPPT Voltage Range	500 - 1500 V			
Start-up Voltage	550 V			
Nominal PV Input Voltage	1160 V			
Max. PV Input Current per MPPT	75 A			
Max. PV Short Circuit Current per MPPT	125 A			
Number of MPPT	6			
Number of PV Input	30			
AC Output				
Nominal Output Power	350 kW	330 kW	320 kW	300 kW
Max. Output Power	352 kW	330 kW	352 kW	330 kW
Max. Output Apparent Power	352 kVA	330 kVA	352 kVA	330 kVA
Nominal Output Voltage	800V, 3L / PE			
Nominal Output Frequency	50/60 Hz			
Nominal Output Current	253 A	238 A	231 A	217 A
Max. Output Current	254 A	238 A	254 A	238 A
Power Factor	~1 (0.8 leading to 0.8 lagging)			
THDi	<1% (at nominal power)			
Efficiency				
Max. Efficiency	99.02%			
European Efficiency	98.82%			
Protection				
PV String Current Monitoring	Integrated			
PV Insulation Detection	Integrated			
Residual Current Monitoring Unit	Integrated			
DC Reserve Connection Protection	Integrated			
Anti-island Protection	Integrated			
AC Short Circuit Protection	Integrated			
AC Overvoltage Protection	Integrated			
DC Switch	Integrated			
DC Surge Protection	Type II			
AC Surge Protection	Type II			
Reactive Power Compensation at Night	Integrated			
Protective Class	Class I			
Overvoltage Category	III[AC], II[DC]			
AFCI	Optional			
Anti-PID & PID recovery	Optional			
General Data				
Dimensions (W×H×D)	1147 mm × 800 mm × 362 mm			
Weight	< 120 kg			
Operating Temperature	-30 to +60 °C			
Output Power @50°C	310 kW			
Operating Humidity	0 - 100%RH (non-condensing)			
Altitude	4000 m			
IP Rating	IP66			
Cooling Method	Smart Air Cooling			
Isolation Method	Non-isolated			
AC Connection	OT/DT Terminal (Max. 400 mm^2)			
Display, Communication and Standard				
Display	LED, Bluetooth+S-Miles APP			
Communication Interface	RS485, PLC			
Executive Standards	IEC/EN 62109-1/-2			

* Subject to change without notice.

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