



PV INVERTER

Commercial Series / M125HV_111

Features

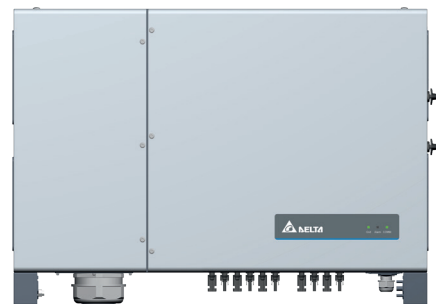
- DC input voltage up to 1500 VDC
- Up to 99% efficiency and 98.7% Euro efficiency
- Built-in DC switch, AC / DC Type II SPD and 20-string photovoltaic array
- Electrolytic capacitors free design improves product life and stability
- IP65 protection
- Optional Type I or Type I + II SPD
- String monitoring function and Arc fault detection
- Operating temperature range from -30 to 60°C
- IV curve scanning and night time anti-PID function

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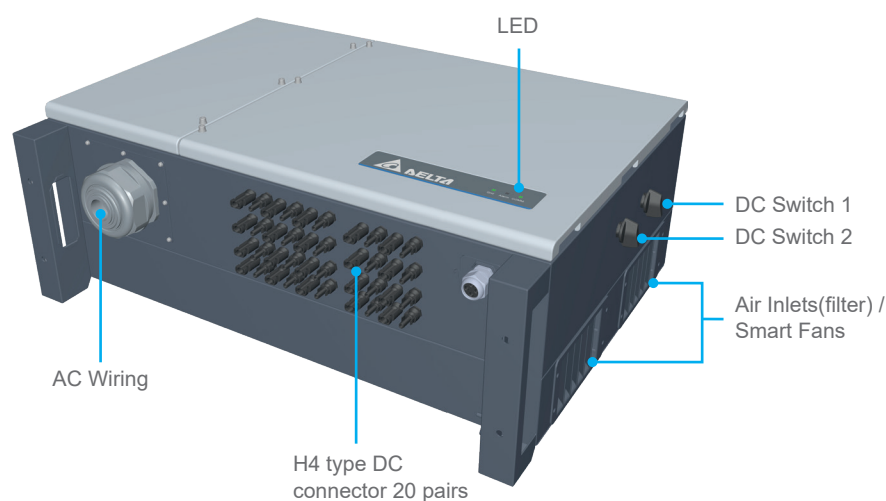


Product Overview

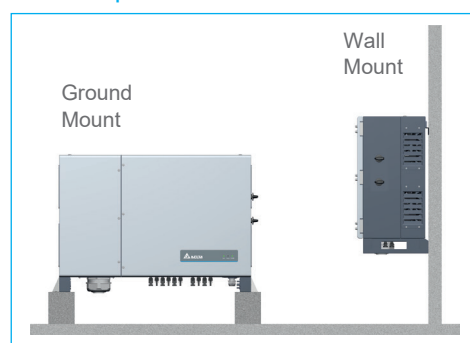
Delta's M125HV_111 three-phase solar inverter features more than 99% peak efficiency and 98.7% Euro efficiency. The M125HV_111 adopts an integrated design, integrating string fuses, surge protection devices, and DC switches in a single unit. Electrolytic capacitors free design and IP65 rating improve service life and ensure reliable long-term operation of the M125HV_111.



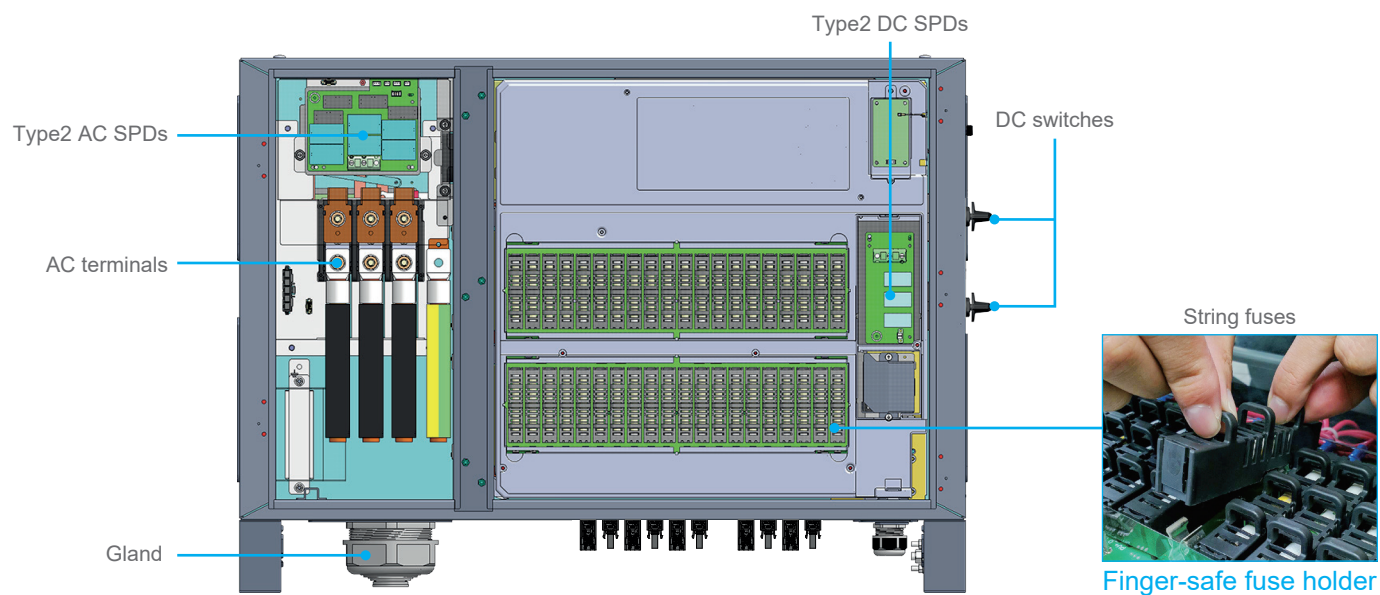
Form Factor



Landscape installation



Wiring Box Configurations



Specifications

Model Number	M125HV_111			
DC Input				
Occasionally Max. Voltage	1500 V ¹⁾			
Operating Voltage Range	860 - 1500 V			
MPP Voltage Range	860 - 1350 V ²⁾			
Rated Voltage	1050 V			
MPP Tracker	1			
Max. Operating Current	150 A			
Max. Allowable Array Isc	320 A			
String Fuse Provisioned	20 A / 1500 V PV fuses			
Connection	20 pairs of H4 series connectors ³⁾			
Surge Protection	Type II SPD (option type I, type I+II)			
DC Switch	Built-in			
AC Output				
Max. Output Power	125 kW / 140 kVA			
Max. Output Current	135 A			
Grid Configuration	3P / PE			
Operating Voltage Range	Vac 600V : -36% to +15%			
Operating Frequency Range	50 / 60Hz ± 5Hz			
Power Factor	0.8 ind - 0.8 cap adjustable (1 - 0.9 at maximum power)			
Surge Protection	Type II SPD (option type I, type I+II)			
T.H.D	< 3%			
Connection	Ring terminal lug with Terminal block (Max. 185mm² Cu or Al wire)			
Night Time Consumption ⁴⁾	< 3.5W			
Efficiency				
Peak Efficiency	>99%			
Euro Efficiency	98.7%			
Information				
Communication Port	RS-485 (Delta / Sunspec), Bluetooth			
Display	LED (Grid, Alarm, COMM.)			
Regulation				
	Enedis-PRO-RES_64E TRF_EN50549-2_2019a UTE C 15-712-1	VDE AR-N 4110 EN 61000-6-2 EN 61000-6-3	IEC 62109-1/-2 IEC 61439-2 IEC 61727	IEC 62116 IEC 62910 IEC 62109
General Data				
Smart Inverter Functionality	Voltage / Frequency Ride through, Volt / Var, Volt / Watt, Power curtailment, Frequency / Watt			
Protection	Arc fault detection, DC reverse polarity detection, Leakage current protection, Insulation resistance detection			
Features	Night time Anti-PID, String current monitoring, IV curve scanning, Night time reactive power			
Operating Temp Range	-30°C to 60°C (> 50°C de-rating)			
Protection Level	IP65			
Operating Elevation	< 3000 m			
Cooling	Forced air cooling with Smart fan control			
Noise	71.5 dBA @1m, Amb25°C			
Dimension (W x H x D)	900 x 663 x 334 mm			
Weight	80 kg			

1) Maximum withstands voltage is 1600Vdc. However, the inverter will stop operating when the input voltage is above 1500Vdc.

2) Ambient < 25°C : 860 - 1350V

Ambient < 40°C : 860 - 1250V

3) Accessories H4 Plus for field wiring, suitable size : 4 / 6 / 10(optional) mm² copper conductor.

4) Night time consumption with standby communication.

*All specifications are subject to change without prior notice.



Delta Electronics, Inc.

39 Section 2 Huandong Road, Shanhua Township,
Tainan County 74144, Taiwan, R.O.C.

TEL : +886 6 505-6565

FAX : +886 6 505-1919

info@deltaww.com