



PV INVERTER

Commercial Series / M125HV_111

Features

- High DC input voltage up to 1500 Vdc
- Excellent efficiency performance, >99% peak & 99.0% CEC
- Integral AC & DC switch, type II SPD and 20 string fuses
- Electrolytic capacitor free, more than 20 years life
- NEMA 4X protection level
- Integral DC Arc fault detector
- String monitoring
- Operating temp. range -22°~140°F

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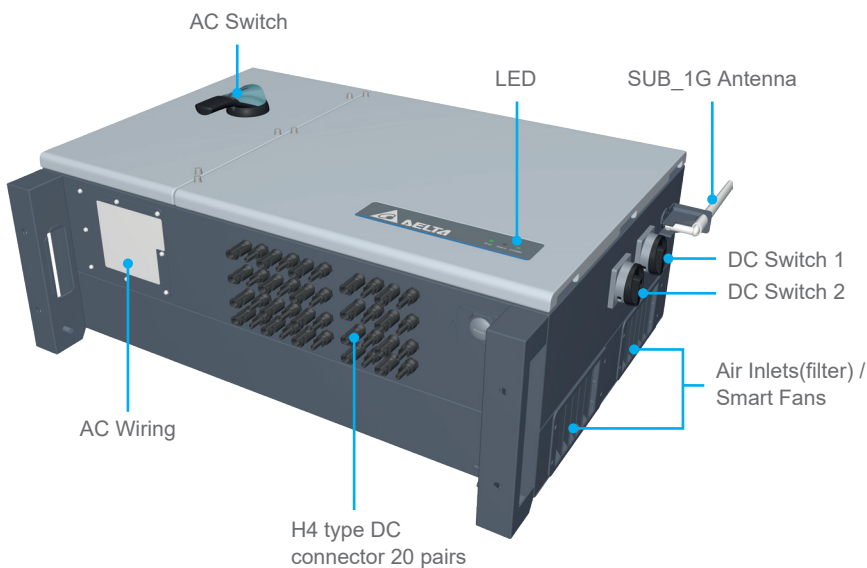


Product Overview

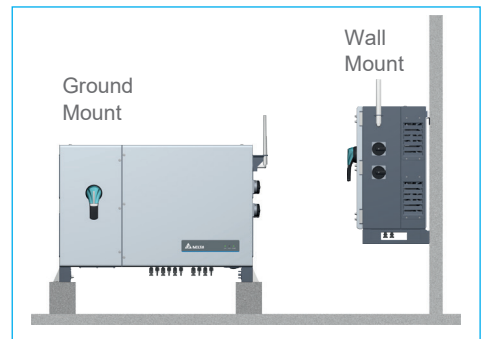
Delta M125HV_111 has excellent power efficiency to reach >99% peak and 99.0% CEC over converting PV energy. It features all-in-one design to integrate string fuses, surge protection devices and DC switch in one unit body. Thanks for electrolytic capacitor free design and NEMA 4X protection, the M125HV_111 is the most reliable and durable inverter than ever.



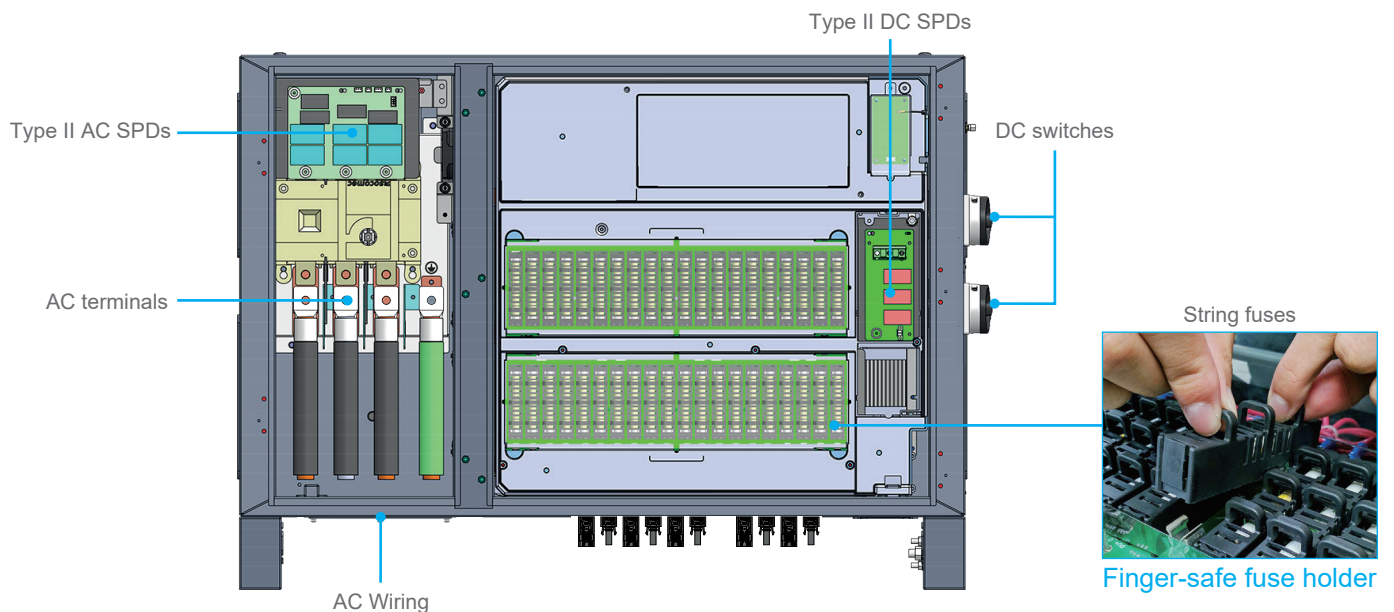
Form Factor



Landscape installation



Wiring Box Configurations



Specifications

Model Number	M125HV_111
DC Input	
Occasionally Max. Voltage	1500 V
Operating Voltage Range	860 - 1500 V
MPP Voltage Range	860 - 1350 V ¹⁾
Start Voltage	910 V
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 ²⁾
Surge Protection	Type II SPD
DC Switch	Built-in
AC Output	
Rated Output Power	125 kW ³⁾
Max. Apparent Power	125 kVA / 132 kVA / 140 kVA ⁴⁾
Max. Output Current	120 A @125 kVA / 127.5 A @132 kVA / 135 A @140 kVA
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
Ground Fault Protection	Built-in
T.H.D	< 3%
Connection	Ring terminal lug with Terminal busbar (Max. 150mm ² Cu or Al wire)
Night Time Consumption ⁵⁾	< 3.5W
Efficiency	
Peak Efficiency	>99%
CEC Efficiency	99.0%
Information	
Communication Port	RS-485 (Delta / Sunspec), Bluetooth (Optional: SUB_1G)
Display	LED (Grid, Alarm, COMM.)
Regulation	
	UL 1741 SA, UL1741, UL1998, UL 1699B IEEE1547, IEEE1547.1, CSA C22.2
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	-22°~140°F, >122°F de-rating
Protection level	NEMA 4X
Operating Elevation	<9800 ft, Outdoor, wet locations
Cooling	Forced air cooling with Smart fan control
Noise	71.5 dBA @1m, Amb25°C
Dimension (W x H x D)	35.4 x 26.1 x 14.5 in
Weight	176 lb

1) Ambient < 77°F : 860 - 1350V

Ambient < 104°F : 860 - 1250V

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

3) @TAMB ≤ 122°F, VIN ≤ 1050VDC

4) Max. Apparent Power can be set during commissioning

5) Night time consumption with standby communication

*All specifications are subject to change without prior notice



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