



## 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
- PRO EL function

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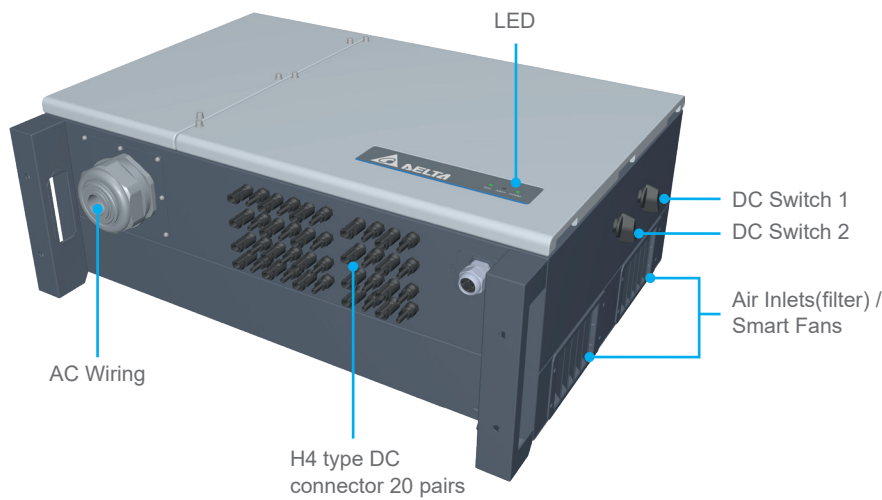


# Product Overview

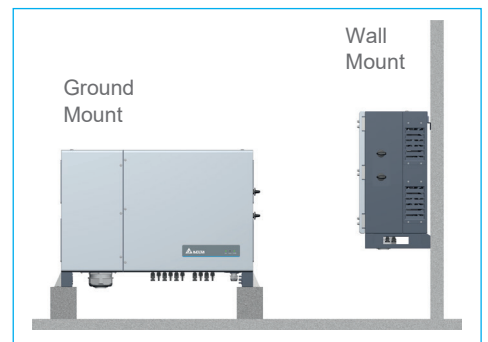
Delta's M125HV\_111 three-phase solar inverter features more than 99% peak efficiency and 98.7% Euro efficiency. The M125HV\_111 adopts an integrated design, integrating string fuses, surge protection devices, and DC switches in a single unit. Electrolytic capacitors free design and IP65 rating improve service life and ensure reliable long-term operation of the M125HV\_111.



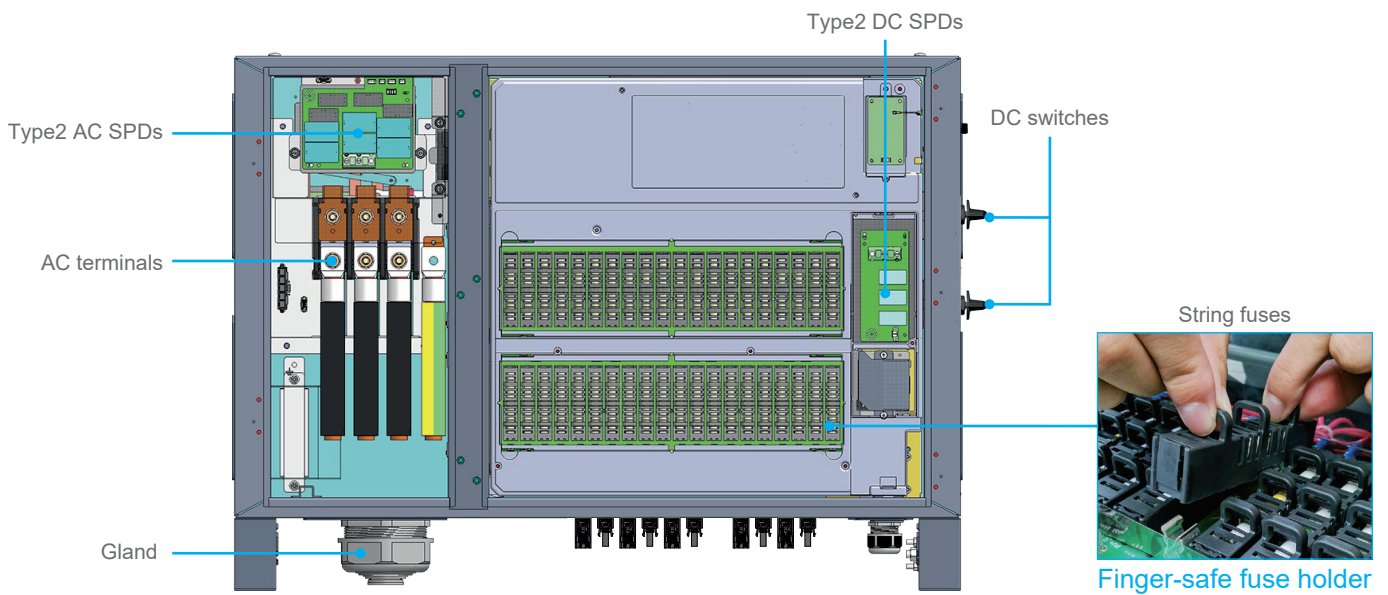
# Form Factor



## Landscape installation



# Wiring Box Configurations



# Specifications

Model Number	M125HV_111			
<b>DC Input</b>				
Occasionally Max. Voltage	1500 V <sup>1)</sup>			
Operating Voltage Range	860 - 1500 V			
MPP Voltage Range	860 - 1350 V <sup>2)</sup>			
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 <sup>3)</sup>			
Surge Protection	Type II SPD (option type I, type I+II)			
DC Switch	Built-in			
<b>AC Output</b>				
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. 185mm <sup>2</sup> Cu or Al wire)			
Night Time Consumption <sup>4)</sup>	< 3.5W			
<b>Efficiency</b>				
Peak Efficiency	>99%			
Euro Efficiency	98.7%			
<b>Information</b>				
Communication Port	RS-485 (Delta / Sunspec), Bluetooth			
Display	LED (Grid, Alarm, COMM.)			
<b>Regulation</b>				
	Enedis-PRO-RES_64E	VDE AR-N 4110	IEC 62109-1/-2	IEC 62116
	TRF_EN50549-2_2019a	EN 61000-6-2	IEC 61439-2	IEC 62910
	UTE C 15-712-1	EN 61000-6-3	IEC 61727	IEC 62109
<b>General Data</b>				
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	Pro-EL mode, 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) mm<sup>2</sup> copper conductor.

4) Night time consumption with standby communication.

\*All specifications are subject to change without prior notice.



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