

PLC

Bluetooth®



## M225HV

High-efficiency three-phase solar inverter for large ground-mounted PV systems



Wide input voltage range  
(500 to 1500 V)



Peak efficiency

- IP66 housing with simplified cable feed
- Arc detection, string monitoring
- 3 automatic DC isolating switches
- Integrated waveform recorder
- Separate AC wiring box for added safety
- 8 MPP trackers for 2 module strings each
- Compatible with M12 solar modules
- Bluetooth and PLC-integrated
- Reactive power compensation 24/7
- Type 2 AC and DC surge protection devices

# 225 kVA solar inverter

Input (DC)	M225HV
Maximum input power (per MPP tracker/total)	44/230 kW
Max. input voltage	1500 V <sub>DC</sub>
Operating voltage range	500 to 1500 V <sub>DC</sub>
MPP voltage range	500 to 1500 V <sub>DC</sub>
MPP voltage range with maximum power	500 to 1350 V <sub>DC</sub>
Nominal voltage	1150 V <sub>DC</sub>
Maximum current (per MPP tracker/total)	40 A/320 A
Maximum short-circuit current I <sub>SC</sub>	60 A per MPP tracker
Max. number of MPP trackers	8
Max. number of module strings per MPP tracker	2
String fuses	None
DC surge protection devices	Type 2 (EN 50539-11), not replaceable

Output (AC)	M225HV
Maximum apparent power <sup>1)</sup>	225 kVA
Maximum active power <sup>2)</sup>	225 kW
Rated apparent power <sup>1)</sup>	225 kVA
Voltage range <sup>3)</sup>	800 V -20%/+15%, 3 ph. + PE (Δ)
Maximum current	165 A
Frequency range <sup>3)</sup>	50/60 Hz ± 5 Hz
Power factor adjustment range	0.8 cap to 0.8 ind
Total harmonic distortion (THD)	< 3% at nominal apparent power
Consumption in night mode <sup>4)</sup>	< 6 W
AC surge protection devices	Type 2 (EN 61463-11), replaceable

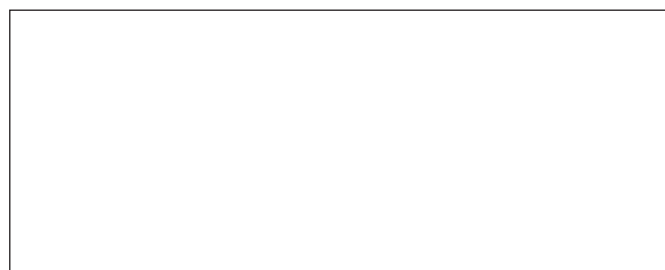
General Specifications	M225HV
Peak efficiency	99.0%
EU efficiency	98.8%
Operating temperature range	-30 to +60 °C
Temperature range without power derating	-30 to +50 °C
Storage temperature range	-25 to +60 °C
Relative humidity	0 to 100%, non-condensing
Max. operating height	4000 m (above sea level)
Topology	Without transformer
Standard warranty	5 years (warranty extension available upon request)

Mechanical Design	M225HV
Dimensions (H x W x D)	925 × 1210 × 370 mm
Weight	105 kg
Cooling	Replaceable fan module
Mounting options	Suspended <sup>5)</sup>
Disconnectors	3 x automatic DC disconnectors
Connection type AC side	Threaded bolts, optional clamping screws
Cable specification AC side	Cu/Al 70 to 300 mm <sup>2</sup>
Connection type DC side	Amphenol H4 Pro <sup>6)</sup>

Communication	M225HV
Communication interfaces	2 x RS485, 2 x dry contacts, 1 x external power-off, 6 x digital inputs, Bluetooth®, PLC (PLC100 converter required)
Data visualization	DeltaSolar app, MyDeltaSolar Cloud
Display of operating status	3 LEDs

Safety/Standards	M225HV
Degree of protection	IP66
Safety class	I
Configurable trip parameters	Yes
Insulation monitoring	Yes
Overload behavior	Current limitation, power limitation
Anti-islanding protection/grid regulation	Enedis-PRO-RES_64E, VDE-AR-N 4110/4120/4130
EMC	EN 61000-6-2, EN 61000-6-3, EN 61000-3-11, EN 61000-3-12
Safety	IEC 62109-1/-2, CE compliance

- 1) Cos Phi = 1 (VA = W)
- 2) The active power can be limited.
- 3) AC voltage and frequency range are programmed based on the respective country regulations.
- 4) Night time consumption with standby communication
- 5) Mounting plate included in scope of delivery
- 6) The required number of plugs is included in the scope of delivery



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Data sheet for solar inverter M225HV EU 2024-05-28  
All information and specifications are subject to change without notice

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