

3 MPP Trackers



M30A

High efficiency 3-phase solar inverters for the European market –
The perfect choice for large-scale solar PV systems, such as those used
in the commercial or agricultural sectors.

Features

- 3 MPP trackers for more flexibility in PV system design
- Lightweight with IP66 housing for harsh environmental conditions
- Natural convection for low-noise operation
- Built-in DC disconnect, AC and DC surge protection devices
- Integrated string monitoring function
- Large front door for easy access to internal components
- Without string fuses
- MyDeltaSolar App for quick commissioning via smartphone
- Optional wireless Sub-1G and Wi-Fi communication
- Reactive power compensation in night operation

33 kVA transformerless solar inverters

Technical data

INPUT (DC)	M30A
Input voltage range	200 to 1000 V _{DC}
MPP operating voltage range (full power)	480 to 900 V _{DC}
Nominal voltage	600 V _{DC}
Maximum current	Total: 72 A (30 A per MPP Tracker)
Night time consumption	< 2 W ¹⁾
Max. number of MPP trackers	3 (fuses only required if using 3 pairs per MPPT)
DC Surge Protection Devices	Type 2, replaceable (EN 50539-11)

OUTPUT (AC)	
Max. apparent power	33 kVA ²⁾
Nominal apparent power	30 kVA ²⁾
AC voltage range	
Maximum AC output current	48 A
Nominal frequency	50 / 60 Hz
Frequency range	50 / 60 Hz ± 5 Hz ³⁾
Power factor adjustable	0.8 cap to 0.8 ind
Total harmonic distortion (THD)	< 3% at nominal apparent power
AC Surge Protection Devices	Type 2, replaceable (EN 61463-11)

GENERAL SPECIFICATION

Delta model name	M30A_231
Peak efficiency	98.6%
EU efficiency	98.2%
Operating temperature	-25 to +60 °C
Nominal power without derating	-25 to +40 °C
Storage temperature	-25 to +60 °C
Relative humidity	0 to 100 %, non-condensing
Max. operating altitude	4000 m (above sea level)
Standard guarantee	5 years (guarantee extension is possible)

MECHANICAL DESIGN

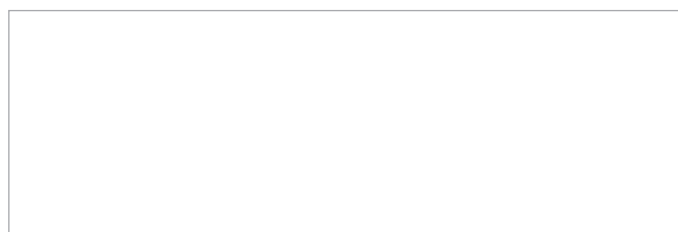
Dimensions (W x H x D)	651 × 520 × 220 mm
Weight	43 kg
Cooling	Natural convection
AC connection type	AC plug (delivered with inverter) for 16 to 25 mm ²
DC connection type	8 pairs of Amphenol H4 PV connectors
Communication interfaces	2 x RS485, 2 x Dry contacts, 1 x EPO, 1 x 12 V _{DC} , 6 x Digital inputs
Communication	RS485, Wi-Fi (optional), Sub-1G (optional)
Disconnectors	1 x integrated mechanical DC disconnect
Status display	3 LED: On Grid, Communication, Alarm
Data visualization	via Gateway
Mounting options	Wall mounting

SAFETY / STANDARDS	M30A
Protection degree	IP66
Safety class	I
Configurable trip parameters	Yes
Insulation monitoring	Yes
Overload behavior	Current limitation, power limitation
Anti-islanding protection / Grid regulation	VFR 2019 C10/11, VDE-AR-N 4105, VDE-AR-N 4110, EN 50549-1/-2
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) Night time consumption with standby communication

2) Cos Phi = 1 (VA = W)

3) AC voltage and frequency range will be programmed according to the individual country requirements.



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