

6 MPP Trackers
Ideal for Commercial
Rooftop or Ground-
Mounted PV Systems



M70A Flex

High-efficiency three-phase solar inverters for the EMEA market –
Perfect choice for large-scale solar PV systems, such as those
used in the commercial or utility sectors.

Features

- 6 MPP trackers for easy handling of shaded areas and different module orientations
- Lightweight and IP66 housing for harsh environmental conditions
- Built-in mechanical DC disconnectors, AC and DC surge protection devices
- Large front door for easy and safe access to internal components
- Reactive power compensation 24/7
- Data point collection for string monitoring and I-V curve creation
- Arc fault and reverse polarity protection, Anti-PID feature
- Flexible mounting on the wall or on the floor (optional)

77 kVA solar inverters

Technical Data

INPUT (DC)	M70A Flex
Max. input voltage	1100 V _{DC} ¹⁾
Input voltage range	200 to 1000 V _{DC}
MPP operating voltage range (full power)	460 to 900 V _{DC}
Nominal voltage	600 V _{DC}
Max. current	156 A total, 26 A per MPP tracker
Max. short-circuit current I _{sc}	50 A per MPP tracker
Night time consumption	< 3.5 W ²⁾
Max. number of MPP trackers	6
DC Surge Protection Devices	Type 2 (EN 50539-11), replaceable, optional with combined Type 1+2

OUTPUT (AC)	
Max. apparent power	77 kVA ³⁾
Max. active power	77 kW ³⁾⁴⁾
Nominal apparent power	70 kVA ³⁾
AC voltage range	230/400V -20% / +30%; ⁵⁾ 3 Phase + PE (Δ) or 3 Phase + N + PE (Y)
Max. AC output current	112 A
Frequency range	50 / 60 Hz ± 5 Hz ⁵⁾
Adjustment range power factor	0.8 cap to 0.8 ind
Total harmonic distortion (THD)	< 3% at nominal apparent power
AC Surge Protection Devices	Type 2 (EN 61463-11), replaceable, optional with combined Type 1+2

GENERAL SPECIFICATION

Delta model name	M70A_260
Peak efficiency	98.8%
EU efficiency	98.4%
Overall operating temperature range	-25 to +60 °C
Operating temperature without derating	-25 to +50 °C
Storage temperature	-25 to +60 °C
Relative humidity	0 to 100%, non-condensing
Max. operating altitude	4000 m (above sea level)
Topology	Without transformer
Standard guarantee	5 years (guarantee extension is possible)

MECHANICAL DESIGN

Dimensions (W x H x D)	699 × 629 × 264 mm
Weight	69 kg
Cooling	Replaceable fan module
AC connection type	Screw terminals
AC cable specification	
• Wire cross section	Cu: 35 to 120 mm ² , Al: 60 to 120 mm ²
• Cable diameter	21.9 to 44.7 mm
DC connection type	18 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, Sub-1G (optional), Wi-Fi (optional)
Disconnectors	Mechanical
Status display	3 LED: On Grid, Communication, Alarm
Data visualization	Via Gateway
Mounting options	Wall mounting, Ground mounting (optional)

SAFETY / STANDARDS	M70A Flex
Protection degree	IP66
Safety class	II
Configurable trip parameters	Yes
Insulation monitoring	Yes
Overload behavior	Current limitation, power limitation
Anti-islanding protection / Grid regulation	VFR 2019 (Enedis-PRO-RES_10E, Enedis-PRO-RES_64E), 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

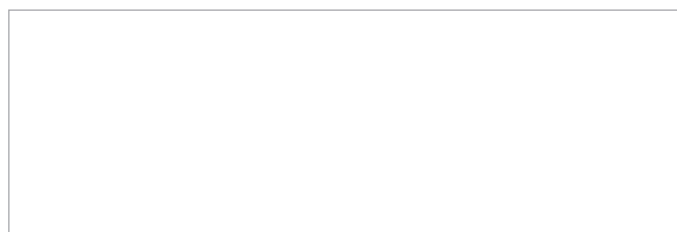
1) The maximum voltage withstand is 1100 V_{DC}. The inverter starts to work when the PV voltage drops below 1000 V_{DC}.

2) Night time consumption with standby communication

3) Cos Phi = 1 (VA = W)

4) At ambient temperatures ≤ 40 °C. The active power can be limited.

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



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