



M70A Flex

High-efficiency three-phase solar inverters for large commercial rooftop and ground-mounted PV systems.



Wide input voltage range
(200 to 1000 V)

- Lightweight with IP66 housing for harsh environmental conditions
- Wall or ground mounting (optional)



Peak efficiency

- 6 MPP trackers for more flexibility when designing the PV system
- Anti-PID and arc detection
- Optional AC and DC surge protection devices type 1+2

77 kVA solar inverters

Input (DC)	M70A Flex
Max. input voltage	1000 V _{DC} ¹⁾
Operating voltage range	200 to 1000 V _{DC}
MPP voltage range	200 to 1000 V _{DC}
MPP voltage range with max. power	460 to 900 V _{DC}
Nominal voltage	600 V _{DC}
Max. current (per MPP tracker/total)	26 A/156 A
Max. short-circuit current I _{SC}	50 A per MPP tracker
Max. number of MPP trackers	6
Max. number of module strings per MPP tracker	3
DC surge protection devices	Type 2 (EN 61463-11), replaceable; combined Type 1+2 retrofittable

Output (AC)	M70A Flex
Max. apparent power ²⁾	77 kVA
Max. active power ²⁾	77 kW ³⁾
Nominal apparent power ²⁾	70 kVA
Voltage range ⁴⁾	230/400 V -20%/+30%, 3 phases + PE (Δ), 3 phases + N + PE (Y)
Max. current	112 A
Frequency range ⁴⁾	50/60 Hz ± 5 Hz
Adjustment range of power factor	0.8 cap to 0.8 ind
Total harmonic distortion (THD)	< 3% at nominal apparent power
Consumption in night mode ⁵⁾	< 3 W
AC surge protection devices	Type 2 (EN 61463-11), replaceable; combined Type 1+2 retrofittable

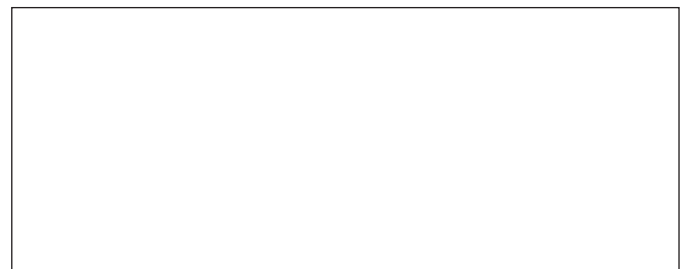
General Specifications	M70A Flex
Delta model name	M70A_260
Peak efficiency	98.8%
Efficiency EU	98.4%
Operating temperature range	-25 to +60°C
Temperature range without power derating	-25 to +50 °C
Storage temperature range	-25 to +60°C
Relative humidity	0 to 100%, non-condensing
Max. operating altitude	4000 m (above sea level)
Topology	Without transformer
Standard warranty	5 years (warranty extension available upon request)

Mechanical design	M70A Flex
Dimensions (H x W x D)	699 × 629 × 264 mm
Weight	69 kg
Cooling	Replaceable fan module
Mounting options	Wall mounting ⁶⁾ , floor mounting ⁷⁾
Disconnectors	2 mechanical DC disconnectors
Connection type AC side	Screw terminals
Connection type DC side	18 pairs of DC plugs Amphenol H4 ⁸⁾

Communication	M70A Flex
Communication interfaces	2 x RS485, 2 x dry contacts, 1 x external power-off, 6 x digital inputs, Wi-Fi (optional), Sub-1G (optional)
Data visualization	DeltaSolar app, MyDeltaSolar Cloud
Display of operating status	3 LEDs

Safety / Standards	M70A Flex
Protection class	IP66
Safety class	I
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, EN 50549-1
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 max. voltage withstand is 1100 VDC. The inverter starts to work when the input voltage drops below 1000 VDC.
- 2) Cos Phi = 1 (VA = W)
- 3) At ambient temperatures ≤ 40°C.
- 4) AC voltage and frequency range are programmed based on the respective country regulations.
- 5) Night-time consumption with standby communication
- 6) Mounting plate included in scope of delivery
- 7) Mounting feet can be ordered separately
- 8) Included in scope of delivery



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