

**Low Noise**

Ideal for Private and  
Commercial PV Plants

**COMPATIBLE WITH**



DeltaSolar  
APP 2.0 & Cloud



## M15A Flex

High-efficient, low-noise, three-phase solar inverters –  
The perfect choice for private and commercial PV systems.

### Features

- Low noise level (max. 31.6 dB(A)) - perfect for use in residential PV plants
- Superior thermal performance even in warm ambient temperatures
- 2 MPP trackers for more flexibility in PV system design
- Lightweight with IP66 housing for harsh environmental conditions
- Built-in mechanical DC disconnect, AC and DC SPD Type 2
- Large front door for easy and safe access to internal components
- Integrated Wi-Fi for connecting to a smartphone or an internet router
- 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

# 16.5 kVA solar inverters

## Technical Data

INPUT (DC)	M15A Flex
Max. input voltage	1100 V <sub>DC</sub> <sup>1)</sup>
Input voltage range	200 to 1000 V <sub>DC</sub>
MPP operating voltage range (full power)	325 to 900 V <sub>DC</sub>
Nominal voltage	600 V <sub>DC</sub>
Max. current	48 A total, 26 A per MPP Tracker
Max. short-circuit current I <sub>sc</sub>	50 A per MPP tracker
Night time consumption	< 2 W <sup>2)</sup>
Max. number of MPP trackers	2
DC Surge Protection Devices	Type 2 (EN 50539-11), replaceable

OUTPUT (AC)	
Max. apparent power	16.5 kVA <sup>3)</sup>
Max. active power	16.5 kW <sup>3)4)</sup>
Nominal apparent power	15 kVA <sup>3)</sup>
AC voltage range	230/400 V <sub>AC</sub> -20% / +30%; <sup>5)</sup> 3 Phases + PE (Δ) or 3 Phases + N + PE (Y)
Max. AC output current	24 A
Frequency range	50 / 60 Hz ± 5 Hz <sup>5)</sup>
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 (EN 61463-11), replaceable

### GENERAL SPECIFICATION

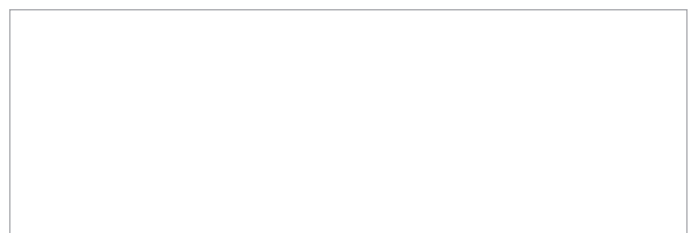
Delta model name	M15A_220
Peak efficiency	98.3%
EU efficiency	97.9%
Operating temperature	-25 to +60 °C
Nominal power without derating	-25 to +50 °C
Storage temperature	-25 to +60 °C
Relative humidity	0 to 100 %, non-condensing
Max. operating altitude	4000 m (above sea level)
Noise level	≤ 31.6 dB(A) <sup>6)</sup>
Topology	Without transformer
Standard guarantee	5 years (guarantee extension is possible)

### MECHANICAL DESIGN

Dimensions (W x H x D)	651 × 520 × 220 mm
Weight	40.5 kg
Cooling	Natural convection
AC connection type	AC plug (delivered with inverter) for 5 to 10 mm <sup>2</sup>
DC connection type	4 pairs of Amphenol H4 PV connectors
Communication interfaces	2 x RS485, 2 x Dry contacts, 1 x EPO, 1 x 12 V <sub>DC</sub> , 6 x Digital inputs
Communication	RS485, Wi-Fi, Sub-1G (optional)
Disconnectors	Mechanical
Status display	3 LED: On Grid, Communication, Alarm
Data visualization	Via Gateway
Mounting options	Wall mounting

SAFETY / STANDARDS	M15A Flex
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 (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 maximum voltage withstand is 1100 V<sub>DC</sub>. The inverter starts to work when the PV voltage drops below 1000 V<sub>DC</sub>.
- 2) Night time consumption with standby communication
- 3) Cos Phi = 1 (VA = W)
- 4) At ambient temperatures ≤ 50 °C. The active power can be limited.
- 5) AC voltage and frequency range will be programmed according to the individual country requirements.
- 6) At 1 m distance and ambient temperature of 25 °C



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