






UX-MII series solar inverters

autarco

The Autarco three-phase UX-MII series inverters offer the best and most reliable performance in its class. With 5 & 6 independent MPPTs and a total of 10 & 12 string inputs, they offer the flexibility often asked in for commercial rooftop solar projects, managing shade losses from obstacles and environment. This series is designed to offer the best possible business case while delivering all premium functions.

-  Eligible for Autarco's insured kWh Guarantee
-  Compact, lightweight
-  Integrated arc fault detection
-  High speed MPPT algorithm
-  Cloud-based digital O&M including IV Curves



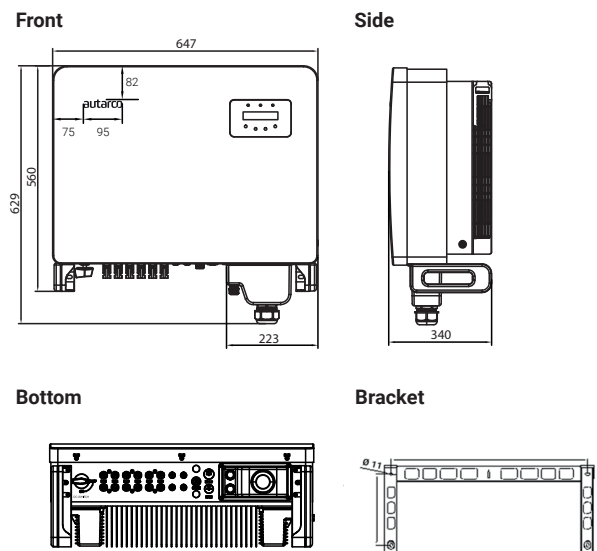
QUALITY CERTIFICATES

- ◆ EN 50549-1, EN 50549-2, EN 61000-6-1/2/3/4 (CE), IEC 62109-1/2
- ◆ VDE 4105, VDE 0126, C10/11, NTS 631, RD 1699
- ◆ CE, Solarif, Lloyds of London



GENERAL CHARACTERISTICS

Warranty	Standard 5 years extendable to 15 years
Dimensions (W x H x D)	670 x 560 x 340mm
Mounting	Wall bracket
Max. site altitude	4000m
IP protection class	IP66 according IEC 6210 9
Isolation type	Transformerless
Cooling principle	Convection with smart fan-cooling
Noise level, typical	< 30dBA, <50dBA with cooling fan
DC connection type	Stäubli MC4
LCD display	20 x 2 characters
Communication interfaces	1xRS485, 2xRJ45
Optional interfaces	WiFi, GPRS, LAN, PLC
DC switch	Integrated (optionally excluded)



INPUT CHARACTERISTICS

	S2.UX50000(S)-MII	S2.UX60000(S)-MII	S2.UX60000(S)-HV-MII	S2.UX70000(S)-HV-MII
Max. PV input power (W)	50000	60000	60000	70000
Max. DC voltage (V)	1100	1100	1100	1100
MPP tracker voltage range (V)	180-1000	180-1000	180-1000	180-1000
Start-up DC voltage (V)	195	195	195	195
Number of MPP trackers	5	6	6	6
Max. DC current per MPPT (A)	32	32	32	32
Max. short circuit current (A)	50	50	50	50
Number of DC connections per MPPT	2	2	2	2
Max. short circuit current (Isc) per MPPT (A)	40	40	40	40
Turn on power (W)	10	10	10	10

OUTPUT CHARACTERISTICS

AC connection	230 / 400 VAC	230 / 400 VAC	480 VAC	480 VAC
Power connection	3-phase	3-phase	3-phase	3-phase
Rated AC power (W)	50000	60000	60000	70000
Max. AC power (W)	55000	66000	66000	77000
Grid connection standards	EN 50549-1, VDE4105, VDE0126-1-1, G98			
Grid connection standards	G99, CEI 0-12, NTS631, UNE 217002			
Rated AC current (A at 380/400V)	76.0 / 72.2	91.2 / 86.6	72.2	84.2
Max. AC current (A)	83.6	100.3	79.4	92.6
Power factor	0.8...1...0.8	0.8...1...0.8	0.8...1...0.8	0.8...1...0.8
Harmonic distortion (%)	< 3	< 3	< 3	< 3
DC injection current (mA)	< 50	< 50	< 50	< 50
Weight (kg)	53	53	53	53

EFFICIENCY

Max. efficiency	98.70% - 99.00%
Euro efficiency	98.30% - 98.50%
MPPT efficiency	>99.90%

OTHER CHARACTERISTICS

Operating temperature range	-25°C to +60°C
Relative humidity range	0% to 100%

PROTECTION

DC overvoltage protection	Integrated
DC reverse polarity protection	Integrated
Short circuit protection	Integrated
Grid monitoring	Integrated
Residual current detection	Integrated
Insulation resistance monitoring	Integrated
Temperature protection	Integrated
Islanding protection	Integrated
Arc-fault circuit interrupter	Integrated
Output over current protection	Integrated
AC & DC Surge protection	Type II optional

The specifications contained in this datasheet may deviate slightly from our actual products due to on-going product improvement and are subject to change at any time without prior notice.

