

# UX-MII

## Series solar inverters

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

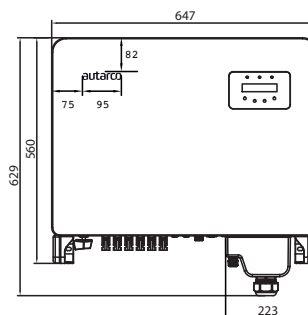
EN 50549-1, EN 50549-2, EN 61000-6-1/2/3/4 (CE), IEC 62109-1/2  
VDE 4105, VDE 0126, C10/11, NTS 631, RD 1699



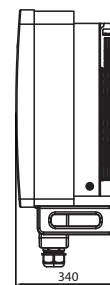
## General characteristics

<b>Dimensions (W x H x D)</b>	670 x 560 x 340mm
<b>Net Weight</b>	53kg
<b>Mounting</b>	Wall bracket
<b>Max. site altitude</b>	4000m
<b>IP protection class</b>	IP66
<b>Isolation type</b>	Transformerless
<b>Cooling principle</b>	Convection with smart fan-cooling
<b>Noise level, typically</b>	< 30dBA, <50dBA with cooling fan
<b>Product guarantee</b>	5 years, extendable to 15 years
<b>LCD display</b>	20 x 2 characters
<b>Communication interfaces</b>	1xRS485, 2xRJ45
<b>Optional interfaces</b>	WiFi, GPRS, LAN, PLC
<b>DC switch</b>	Integrated (optionally excluded)
<b>DC connection type</b>	Stäubli MC4

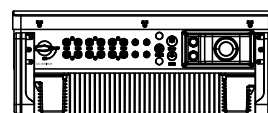
Front



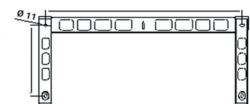
Side



Bottom



Bracket



# 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 (V)	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

# Efficiency

Max. efficiency	98.7 ~ 99.0%
EU efficiency	98.3 ~ 98.5%
MPPT efficiency	> 99.9%

# 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 surge protection type	II (Type I Optional)

