

# OX-MIII

## On-grid inverter

The new Autarco three-phase OX-MIII series inverters deliver reliable hardware with digital benefits to speed up design, reduce maintenance costs and improve yields. With 8 or 10 independant MPPT's and a total of 16 or 20 string inputs of max. 18A each, they offer the flexibility often asked in for commercial rooftop solar projects, managing shade losses from obstacles and environment. The OX-MIII series is delivering the utmost in security features including integrated ARC-fault detection. This series is designed to work reliably with Autarco EMS with dedicated RS485 port for direct EMS connection.

- + Up to 10 MPPT with 36 and 42 A
- + 98.7% max efficiency
- + Integrated AFCI functionality for ultimate safety
- + Integrated smart meter port
- + Integrated RS485 port for direct EMS connection
- + Internal PELD functionality



## General characteristics

Dimensions (W x H x D)	1014 x 567 x 345 mm
Net Weight	93 kg
Mounting	Wall bracket
Max. site altitude	4000m
IP protection class	IP66
Topology	Transformerless
Cooling principle	Intelligent fan-cooling
Warranty	5 years, extendable to 15 years
Compatible battery types	Lithium-ion
Display	LCD
Communication interfaces	RS485
Optional interfaces	Optional: Wi-Fi, GPRS, PLC MC4
DC / AC connection	Terminal Block
Battery connection	Terminal connector
Safety / EMC Standards	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4
Operating temperature range	-30°C to +60°C
Relative humidity range	0% to 100%



Type Approved  
Safety  
Production  
Surveillance  
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## PV Input characteristics

	S2.OX80000-MIII	S2.OX100000-MIII	S2.OX110000-MIII	S2.OX125000-MIII
Max. Input voltage (V)	1100	1100	1100	1100
Rated voltage (V)	600	600	600	600
Start-up voltage voltage (V)	180	180	180	180
MPPT voltage range (V)	160 - 1000	160 - 1000	160 - 1000	160 - 1000
Max.input current (A)	4x(42/36)	5x(42/36)	5x(42/36)	5x(42/36)
Max. short circuit current (A)	8x50	10x50	10x50	10x50
MPPT number / Max. Input strings number	8/16	10/20	10/20	10/20

## Output characteristics (Grid side)

	S2.OX80000-MIII	S2.OX100000-MIII	S2.OX110000-MIII	S2.OX125000-MIII
Rated output power (kW)	80	100	110	125
Max. apparent output power (kVA)	88	110	121	125
Rated grid voltage (V)	3/N/PE, 220 V / 380 V, 230 V / 400 V			
Rated grid frequency (Hz)	50/60	50/60	50/60	50/60
Rated grid output current (A)	121.6-115.5	152.0-144.3	167.1-158.8	189.9-180.4
Max. output current (A)	133.7	167.1	183.8	189.9
Power factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	>3%			

## Efficiency

Max. efficiency	98.7%
EU efficiency	98.3%

## Protection

Anti-islanding protection	Integrated
Short circuit protection	Integrated
Output over current protection	Integrated
DC switch	Integrated
DC reverse-polarity protection	Integrated
AFCI	Integrated
Surge protection	II / II

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.

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