

OX

Series inverters

The new Autarco three-phase OX series inverters deliver reliable hardware with digital benefits to speed up design, reduce maintenance costs and improve yields. With 9 or 10 independent MPPTs and a total of 18 or 20 string inputs of max. 13A each, they offer the flexibility often asked in for commercial rooftop solar projects, managing shade losses from obstacles and environment. The OX series is delivering the utmost in security features including integrated ARC-fault detection. This series is designed to offer the best possible business case while delivering innovative features.

- + Up to 10 MPPT with 26A MPPT output
- + 98.7% max efficiency
- + IV Curves, string monitoring & Remote Control
- + Integrated AFCI functionality for ultimate safety
- + Cloud based asset management



Quality Certificates

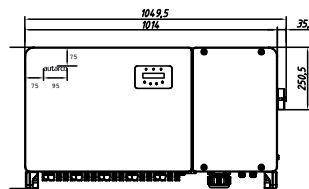
EN 50549-1, EN 50549-2,
VDE 4105, VDE 0126



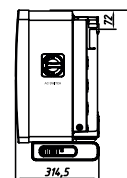
General characteristics

Dimensions (W x H x D)	1050 x 567 x 286.5mm
Net Weight	82kg
Mounting	Wall bracket
Max. site altitude	4000m
IP protection class	IP66
Isolation type	Transformerless
Cooling principle	Convection with smart fan-cooling
Noise level, typically	50dBA
Product guarantee	5 years, extendable to 15 years
LCD display	20 x 2 characters
Communication interfaces	WiFi, GPRS, 5G and Ethernet
Digital O&M	Includes IV Curves & Remote control
DC switch	Integrated (optionally excluded)
AC switch	Excluded (optionally included)
Anti PID	Excluded (optionally included)
Safety / EMC Standards	IEC62109-1/02 IEC 62116

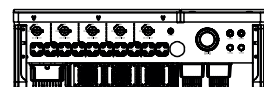
Front



Side



Bottom



Bracket



Input characteristics

	S2.OX80000S	S2.OX90000S	S2.OX100000S	S2.OX1100000S	S2.OX1100000S-HV
Max. PV input power (W)	96000	108000	120000	132000	132000
Max. DC voltage (V)	1100	1100	1100	1100	1100
MPP tracker voltage range (V)	180-1000	180-1000	180-1000	180-1000	180-1000
Start-up DC voltage (V)	195	195	195	195	195
Number of MPP trackers	9	10	10	10	10
Max. DC current per MPPT (A)	26	26	26	26	26
Max. short circuit current (A)	40	40	40	40	40
Number of DC connections per MPPT	2	2	2	2	2
DC connection type	MC4	MC4	MC4	MC4	MC4
Turn on power (W)	50	50	50	50	50

Output characteristics

AC connection (V)	400	400	400	400	400
Power connection	3-phase	3-phase	3-phase	3-phase	3-phase
Rated AC power (W)	80000	90000	100000	110000	110000
Rated AC current (A at 380/400V)	121.6 / 115.5	137.0 / 130.2	152.0 / 144.4	167.1 / 158.8	117.6 at 540V
Max. AC power (W)	88000	99000	110000	121000	121000
Max AC current (A at 380)	133.7	150.4	167.1	183.8	129.4 at 540V
Grid Standards & frequency range	VDE-AR-N 4105, VDE V 0124, VDE V 0126-1-1, G98, G99, EN 50549-1/-2, RD1699				
Max AC current (A at 400)	129.4	143.0	158.9	174.8	129.4 at 540V
Power factor	0.8...1...0.8	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%	< 3%
Cooling principle	Convection	Convection	Convection	Convection	Convection
DC injection current (mA)	< 50	< 50	< 50	< 50	< 50

Efficiency

Max. efficiency	98.7 ~ 99.0%
EU efficiency	98.3 ~ 98.5%
MPPT efficiency	> 99.5%

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
DC surge protection type	II
AC surge protection type	II (Type I Optional)

