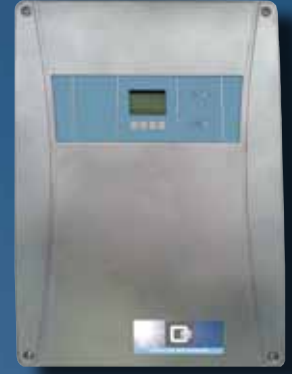




# QX<sup>3</sup> Inverter Series

QX<sup>3</sup>10000 · QX<sup>3</sup>13000 · QX<sup>3</sup>15000 · QX<sup>3</sup>18000

- Three phases
- 2/3 MPP trackers
- Integrated data-logger and web server
- IP 65
- Simple installation Plug & Play
- Homogenous yields



DC Input:	QX <sup>3</sup> 10000	QX <sup>3</sup> 13000	QX <sup>3</sup> 15000	QX <sup>3</sup> 18000
Recommended DC power (+15% acc. ISE)	12.000 W	15.000 W	17.000 W	20.000 W
Maximum input voltage	1.000 V			
Minimum input voltage/Start input voltage	Input A/(B): 250 V/280 V			
Minimum input voltage*	Input B: 120 V	Input C: 120 V		
MPP voltage range	350-800 V	320-800 V	360-800 V	400 - 800 V
Rated input voltage	690 V			
Maximum current per input (A/B) **	18 A			
Maximum short circuit current per input	20 A			
Start feeding-in at	30 W			
Number of independent MPP inputs	2	3		
Strings per MPP input	2			
DC terminal type	SUNCLIX			
DC Overvoltage category	III			
AC Output:	QX <sup>3</sup> 10000	QX <sup>3</sup> 13000	QX <sup>3</sup> 15000	QX <sup>3</sup> 18000
Rated output power (230 V/50 Hz, cos(φ)=1)	10.000 W	13.000 W	15.000 W	17.000 W
Maximum apparent AC power	10.000 VA	13.000 VA	15.000 VA	17.000 VA
AC connection	3/N/PE			
AC nominal output voltage range	3x 400 V/3x 230 V +/- 20%			
Power factor range, adjustable cos(φ)	0,9 ind. ... 1 ... 0,9 kap.			
Operating range at nominal frequency	50 Hz/47,5 Hz-51,5 Hz			
Maximum output current	3x 20 A	3x 22 A	3x 22 A	3x 25 A
Maximum short circuit current	3x 20 A	3x 22 A	3x 22 A	3x 25 A
Maximum permitted fusing	Circuit breaker 32 A, characteristic B			
Distortion factor at cos(φ) = 1	< 3%			
Self-consumption at night	< 2 W			
AC Overvoltage category	III			

Efficiency	QX <sup>3</sup> 10000	QX <sup>3</sup> 13000	QX <sup>3</sup> 15000	QX <sup>3</sup> 18000
Maximum efficiency	98%			
European efficiency	97,5%			
Protection and protective devices	QX <sup>3</sup> 10000	QX <sup>3</sup> 13000	QX <sup>3</sup> 15000	QX <sup>3</sup> 18000
Topology	transformerless			
Protection class	I			
Earth fault detection	integrated			
Residual current monitoring	integrated, sensitive to universal current			
Overload behaviour	operating point adjustment			
Overtemperature behaviour	operating point adjustment			
Input isolator	integrated			
Overvoltage protection-input	integrated, type 3 as per EN61643-11			
Overvoltage protection-output	integrated, type 3 as per EN61643-11			
Automatic disconnection device	as per VDE 0126-1-1			
Environmental conditions	QX <sup>3</sup> 10000	QX <sup>3</sup> 13000	QX <sup>3</sup> 15000	QX <sup>3</sup> 18000
Ingress protection	IP 54/connection area IP 65			
Cooling concept	variable speed, temperature-controlled fan			
Operating temperature range	-20 bis +60 °C			
Maximum ambient temperature at rated power	50 °C	45 °C	45 °C	40 °C
Climatic category	4K4H according to IEC 721-3-4 ***			
Maximum operating altitude	2000 m above sea level			
Noise emission	≤ 50 dB (A)			
Standards and approvals	QX <sup>3</sup> 10000	QX <sup>3</sup> 13000	QX <sup>3</sup> 15000	QX <sup>3</sup> 18000
EMC emission	EN 61000-6-3: 2001			
EMC immunity	EN 61000-6-2: 2005			
Equipment safety	EN 62109-1, -2			
Grid compliance	VDE-AR-N 4105			
General Data	QX <sup>3</sup> 10000	QX <sup>3</sup> 13000	QX <sup>3</sup> 15000	QX <sup>3</sup> 18000
Dimensions in mm (W x H x D)	455 x 612 x 213 mm (without plugs)			
Weight (approx.)	43 kg	45 kg	45 kg	45 kg
Display	liquid crystal display, 128 x 64 pixel			
Communication interfaces	(internal) RS 485, USB, Ethernet, solar radiation, S0 as per DIN EN 62053-31 class B			
Data storage	24 hours: 5-min values 30 days: hourly values 20 years: daily values			
Relay contact	2x potential-free contact			
Warranty	5 years			

\*) This value is valid if one input has exceeded the start input voltage.

\*\*) It is permitted to exceed this limit as long as the maximum short circuit current is not exceeded.

\*\*\*) The device is designed for an outdoor use. Direct sunlight and precipitation (rain, snow hail) has to be avoided on site.

Q3150402 · Subject to technical alterations, errors and misprints excepted.



We develop and produce innovative and customized electronic devices for the field of renewable energies. Our maxim is thereby to guarantee our customers a high level of quality, efficiency and safety. Our products are characterized by simple and fast installation. As a result, they save time and achieve high yield stability through a coherent networking concept.

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