



QX³ Inverter Series

QX³4000 · QX³5000 · QX³6000 · QX³7000 · QX³8000

Three phases

2 MPP trackers

Integrated data-logger and web server

IP 65

Simple installation Plug & Play

Homogenous yields



DC Input:	QX³4000	QX³5000	QX³6000	QX³7000	QX³8000
Recommended DC power (+15% acc. ISE)	4.700 W	5.800 W	7.000 W	8.700 W	9.500 W
Maximum input voltage			1.000 V		
Minimum input voltage/Start input voltage			Input A: 175 V/200 V		
Minimum input voltage*			Input B: 120 V		
MPP voltage range	190-680 V	240-680 V	280-680 V	260-680 V	290-680 V
Rated input voltage			600 V		
Maximum current per input (A/B) **		10/10 A			18/10 A
Maximum short circuit current per input		12/12 A			20/12 A
Start feeding-in at			20 W		
Number of independent MPP inputs			2		
Strings per MPP input		1			2/1
DC terminal type			SUNCLIX		
DC Overvoltage category			III		
AC Output:	QX³4000	QX³5000	QX³6000	QX³7000	QX³8000
Rated output power (230 V/50 Hz, cos(φ)=1)	4.000 W	5.000 W	6.000 W	7.000 W	8.000 W
Maximum apparent AC power	4.000 VA	5.000 VA	6.000 VA	7.000 VA	8.000 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 8 A	3x 8 A	3x 10 A	3x 12 A	3x 12 A
Maximum short circuit current	3x 8 A	3x 8 A	3x 10 A	3x 12 A	3x 12 A
Maximum permitted fusing			Circuit breaker 16 A, characteristic B		
Distortion factor at cos(φ) = 1			< 3%		
Self-consumption at night			< 2 W		
AC Overvoltage category			III		

Efficiency	QX³4000	QX³5000	QX³6000	QX³7000	QX³8000
Maximum efficiency	97,5%	97,5%	97,5%	97,5%	97,5%
European efficiency	97,0%	97,0%	97,0%	97,0%	97,0%
Protection and protective devices	QX³4000	QX³5000	QX³6000	QX³7000	QX³8000
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	QX³4000	QX³5000	QX³6000	QX³7000	QX³8000
Ingress protection	IP 65	IP 54/connection area IP 65			
Cooling concept	fan-less	variable speed, temperature-controlled fan			
Operating temperature range	-20 bis +60 °C				
Maximum ambient temperature at rated power	45 °C	45 °C	45 °C	40 °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	QX³4000	QX³5000	QX³6000	QX³7000	QX³8000
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	QX³4000	QX³5000	QX³6000	QX³7000	QX³8000
Dimensions in mm (W x H x D)	360 x 506 x 190 mm (without plugs)				
Weight (approx.)	25 kg	25 kg	25 kg	27 kg	27 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) hast to be avoided on site.

