Q*X* Inverter Series

Q*X*5500 · Q*X*14000

Highest efficiency up to 98%

Made in Germany

Top annuel yields by homogeneous optimized efficiency

Plug and play including data logger and webserver

Longtime established technology with best quality

The inverter is the heart of any photvoltaic power plant. Efficiency, fast and precise MPP tracking and operational safety decide significantly about the yield of each plant. Q3 *ENERGIE* GmbH & Co. KG provides with the Q*X* inverter an exceptionally powerful product, which combines most advanced software and high efficient power electronics in one device.

Highest efficiency
All inverters from the Q*X* series are characterised by a high maximum and excellent European efficiency.

All in One
All necessary features for a modern operation are integrated within the device.

Plug & Play
The device does not have to be opened during installation. All connections are made from the outside.

Longevity
The high-quality components from Q3 guarantee a long and powerful functionality of the inverters.

Homogeneous yields
Even at lowest PV performances, the Q*X* inverters are characterized by a high inverter efficiency. This secures yields especially in the partial load range.

Fast and precise MPP tracking
The continuous and exact calculation of the max. power point guarantees each time the optimal yield.

DC Input	QX5500	QX14000
Recomended DC power range	3.000 - 6.000 W	8.000 - 14.400 W
Open circuit voltage DC	850 V	
DC start voltage	380 V	
MPP Trackers	1	3
MPP voltage range	345 – 750 VDC	
Max. current DC	16,2 A	3x 13,2 A
AC Output	**QX5500**	**QX14000**
Nominal power AC	4.600 W	12.000 W
Max. apparent power	4.600 VA	12.000 VA
Max. AC output	5.400 W	13.200 W
Max. output current	21,7 A	3 x 17,4 A
AC continuous output	4.600 W	12.000 W
Nominal output voltage	230 V	3x 230/400 V
Power factor (cos phi) adjustable	0.9 overexited - 0.9 underexited	
Frequency AC nom./min./max.	50/49,8/51,5 Hz	
Efficiency	**QX5500**	**QX14000**
Max. efficiency	97,40%	98%
European efficiency	97,00%	97,3%
Protection and protective devices	**QX5500**	**QX14000**
Certificates	CE, DIN VDE-AR-N-4105, EU conformity, AS 4777.2, EN 50438:2007, G83/1-1	
Protection rating (according to IEC 60529)	IP21	IP65
Kind of grid monitoring	1-phase (VDE-AR-N 4105)	3-phase (VDE-AR-N 4105)
Protection class II	IEC 62103, DIN EN50178	
All-pole sensitive residual current monitoring	integrated	
DC switch	integrated	
Phase control	ENS	
Isolation control	integrated	
Harmonic factor	2%	4%
Self-consumption (operating)	ca. 9 W	
Self-consumption (night)	10 mW	
Min. infeed power	ca. 10 W	
Cooling concept	convection	
General Data	**QX5500**	**QX14000**
Data logger	Integrated, freely programmable	
Languages	D, E, Es, Fr, It, Tr, Cz	
Display	4-line	
Status LED	duo LED	
Error warning	buzzer	
Plant monitoring	integrated	
Interfaces	RS232, RS485, Ethernet, Analog IN/OUT, Digital IN/OUT, Relais	
DC terminal type	LC4	
Operating temperature range	-20°C - +60°C	
Storage temperature range	-20°C - +70°C	
Humidity (non condensing)	max. 90%	
Dimensions (WxHxD) (without plugs)	455 x 310 x 145 mm	620 x 400 x 230 mm
Weight	21 kg	ca. 40 kg
Warranty	5 years	

Q3 ENERGIE GmbH & Co. KG

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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