

Energy + Home Automation

KOPP Kuara 12.0-2-T



Product features

- ✓ High Performance: 98.6% maximum efficiency
- ✓ Upgradeable
- ✓ IP65 Rated
- ✓ Remote Monitoring

Clever sein.
Kopp einschalten.

KOPP

Product	
Article number:	432512030
Product description:	Three-Phase MPPT Inverter
EAN-Code:	4008224675185

Dimensions, Weight, Color	
Height / Width / Depth:	370 x 480 x 183,5 mm
Weight:	17 kg
Color:	blue

Specifications	
Input PV	
Max. Recommended DC Power [W]:	18000
Max. DC Voltage [V]:	1100
Nominal DC Operating Voltage [V]:	600
Max. Input Current (input A / input B) [A]:	14/14
Max. Short Circuit Current (input A / input B) [A]:	18.2/18.2
MPPT Voltage Range [Vdc]:	140–1000
MPPT Voltage Range (full load) [Vdc]:	380–850
Start-up Voltage [V]:	140
No. of MPP Trackers:	2
Strings Per MPP Tracker:	1+1

Output AC	
Nominal AC Power [W]:	12000
Max. Apparent AC Power [VA]:	12000
Rated Grid Voltage (AC Voltage Range) [Vac]:	3/N/PE, 230/400; (320–460)
Rated Grid Frequency [Hz]:	50/60 ± 5
Nominal AC Current [A]:	17.4
Max. AC Current [A]:	19.1
Displacement Power Factor:	1 (Adjustable from 0.8 leading to 0.8 lagging)
Total Harmonic Distortion (THDi, Nominal output):	< 3%

Efficiency	
MPPT Efficiency:	99.80%
Euro-efficiency:	97.80%
Max. Efficiency (THDi, @rated voltage):	98.60%

Protection	
DC Reverse Polarity Protection:	Yes
Anti-Islanding Protection:	Yes
Insulation Monitoring:	Yes
Residual Current Monitoring:	Yes
AC Short Circuit Protection:	Yes
AC Output Over Current Protection:	Yes
AC Output Over Voltage Protection:	Yes
Surge Protection:	Type II (DC) / Type III (AC)
Temperature Protection:	Yes
Integrated DC Switch:	Yes
AFCI Protection:	Optional
String Level Monitor:	Yes

Standard	
Safety:	IEC 62109-1/2
EMC:	IEC 61000-6-1 / IEC 61000-6-2 / IEC 61000-6-3 / IEC61000-4-2/3/4/5/6/8
Certification:	AS4777.2-2020 / VDE-AR-N 4105 / VDE0126-1-1 / G98 / G99 / EN50549-1/ CEI 0-21/ NB/T32004 IEC62116 /IEC61727 /IEC61683

General Data	
Topology:	Transformerless
Noise Emission:	< 30dB
Max. Operating Altitude [m]:	3000
Operating Temperature Range:	-25 – +60°C (derating at +45 °C)
Self Consumption (night) [W]:	< 3
Monitoring Module (optional):	RS485, WIFI (optional) / GPRS (optional) / 4G (optional)
Communication:	Meter, DRM, USB update, E-stop
Display:	LCD screen, Touch Key, App, Website
Cooling Concept:	Natural
Ingress Protection:	IP65
Over Voltage Category:	III (AC side), II (PV side)
Protective class:	I

