

Inverter

convert 4T

Technical data

Input (DC) side	
MPP Input voltage range	180 ... 850 V
Maximum Input voltage U_{oc}	900 V
Recommended MPP voltage	> 400 V (under STC)
Nominal current per MPP tracker	8 A (9 A peak current)
Nominal current (strings in parallel)	12 A (13 A peak current)
Connection via coupling plug-in	2 electrically separate MPP trackers
Output (AC) side three-phase grid feed	
Maximum power P_{ACmax}	4 200 W
Nominal power P_{ACnom}	3 800 W
Voltage U_{AC}	3/N/PE, AC, 230/400 V
Frequency f_{AC}	50 Hz
Power consumption running	< 7 W
Power consumption on standby and when using mains power at night	< 0.9 W
Maximum efficiency	> 95.5%
European efficiency	> 95.0%
Distortion factor in output current (with $k_{UAC} < 2\%$ and $P > 0,5 P_N$)	< 5%
Power factor	> 99%
System data	
Grid power monitor	Automatic disconnection MSD (ENS) with three phase grid monitor according DIN VDE 0126-1-1:2006-02
Short proofing	Current control loop
Overvoltage category	III
All-pole disconnection	Grid power relay (twin)
Ambient temperature	-20°C...+60°C
Relative humidity	0...95% (class 3K6)
Protection category	IP 55
Reverse voltage protection	Short-circuit diode
Overvoltage protection	Electronic
Personal safety	Fault-current monitor, AC/DC residual current monitor, $I_{\Delta N} \geq 30$ mA for added safety
Hardware interface	RS485, Ethernet (LAN); pulse output: 2 000 pulses/kWh
Dimensions (W x H x D)	420 x 320 x 210 mm
Weight	approx 17 kg
CE-conformity	EN 50178; EN 61000-3-2, EN 61000-6-2/3.



The convert 4T combines the stability and long life of a large central inverter with the flexibility and high efficiency of a transformerless string inverter – the ideal solution for every size of system.



- The three phase grid connection ensures a symmetrical feed for longer life and greater durability.
- The transformerless topology with a very wide voltage window allows maximum yield and maximum flexibility.
- Three mutually independent MPP trackers provide for variations in roof slope and minimize any losses due to partial shadow.
- Wiring the trackers in parallel permits a higher current load.
- Optional integration with the Internet portal.

The convert 4T inverter carries a full five-year Solar-Fabrik warranty, with a ten-year warranty option available. Purchases are subject in all other respects to Solar-Fabrik AG's standard terms of sale and supply.



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