

Play it safe



Inverter  
MADE IN GERMANY

## Convert T dcs series

convert 4 T dcs • convert 6 T dcs  
convert 8 T dcs • convert 10 T dcs

- Ideal for medium-sized to large system sizes
- 3-phase grid feeding
- With integrated data logger
- Optional connection to the Internet portal [www.convert-control.de](http://www.convert-control.de)

# convert 4 T dcs · convert 6 T dcs convert 8 T dcs · convert 10 T dcs

Input side (DC)		convert 4 T dcs	convert 6 T dcs	convert 8 T dcs	convert 10 T dcs
MPP input voltage range		180 - 850 V	180 - 850 V	180 - 850 V	180 - 850 V
Max. input voltage	$U_{oc}$	950 V	950 V	950 V	950 V
Min. input voltage		180 V	180 V	180 V	180 V
Start input voltage		180 V	180 V	180 V	180 V
MPP voltage range		360 - 850 V	360 - 850 V	400 - 850 V	400 - 850 V
Rated input voltage		680 V	680 V	680 V	680 V
Max. input current per MPP controller		9 A	9 A	12.5 A	12.5 A
Max. input current for parallel connection		13 A	–	25 A	25 A
Number of independent MPP inputs		2	3	2	3



## Output side (AC) 3-phase grid feeding

Maximum output	$P_{ACmax}$	4,200 W	5,500 W	8,300 W	10,100 W
Rated power	$P_{ACr}$	3,800 W	5,000 W	7,600 W	9,200 W
Grid voltage	$U_{AC}$	3/N/PE, AC, 230/400 V	3/N/PE, AC, 230/400 V	3/N/PE, AC, 230/400 V	3/N/PE, AC, 230/400 V
Number of supply phases		3	3	3	3
Rated grid frequency	$f_{AC}$	50 Hz	50 Hz	50 Hz	50 Hz
Max. output current per phase		6.1 A	8.0 A	12.0 A	14.6 A
Rated reactive power factor (cos phi)		1	1	1	1
Grid feeding as of		25 W	25 W	40 W	40 W
Operating consumption in standby/night mode		< 1 W	< 1 W	< 1 W	< 1 W
Maximum efficiency		> 96.0 %	> 95.3 %	> 96.0 %	> 96.0 %
European efficiency		> 94.7 %	> 94.2 %	> 95.3 %	> 95.4 %
MPP adaptation efficiency		99.9 %	99.9 %	99.9 %	99.9 %
Max. noise		< 33 dBA	< 33 dBA	< 46 dBA	< 46 dBA

## Dimensions

Dimensions in mm (W x H x D)	420 x 350 x 211	420 x 350 x 211	520 x 450 x 230	520 x 450 x 230
Weight in kg	ca. 20.5	ca. 21.1	ca. 33	ca. 34

## System data

Cooling	Temperature-controlled fan
Ambient temperature	-20°C till +60°C
Relative humidity	0 - 95 %
Grid monitoring	Independent disconnection device (ENS) with frequency shifting according to DIN V VDE V 0126-1-1: 2006-02
Short-circuit proof	Current regulation
Overvoltage category	III
Protection class	SKL I
Galvanic isolation	Transformerless
All-pole disconnection unit	Grid relay, double implementation
Protection class	IP 55 (inner + outer)
Reverse voltage protection	Short-circuit diode on DC side
Personal protection	Earth fault monitoring; AC/DC-sensitive differential current monitoring
Communication interfaces	Ethernet (LAN), RS 485, SO
Connections	DC: MC4; AC: spring-loaded terminal strip
DCS	Patented integrated electronic DC circuit breaker
CE conformity	EN 50178; EN 61000-3-3, EN 61000-6-2/3.
Configurable for	BE, DE, FR, GR, IT, LU, NL, P, CH, ES, CZ

Solar-Fabrik AG provides a 5-year warranty for convert T dcs series inverters. A 10 or 20-year warranty can be arranged. The sales and delivery conditions of Solar-Fabrik AG also apply.

Your specialist dealer:

**Solar-Fabrik AG**  
Munzinger Str. 10  
79111 Freiburg  
Germany  
Phone +49 (0)761 4000-0  
Fax +49 (0)761 4000-199  
[www.solar-fabrik.de](http://www.solar-fabrik.de)