

Play it safe



Inverter
MADE IN GERMANY

Convert T dcs series

convert 3T dcs ▪ convert 3,5T dcs

- Ideal for small system sizes
- Single-phase grid feeding
- With integrated data logger for optional connection to the monitoring portal www.convert-control.de
- Integrated circuit contact for self-consumption control
- Integrated electronic DC circuit breaker

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| Input side (DC) | convert 3T dcs | convert 3,5T dcs |
|--|-------------------|---------------------|
| MPP input voltage range | 180 - 850 V | 180 - 850 V |
| Max. input voltage | 950 V | 950 V |
| Min. input voltage | 180 V | 180 V |
| Start input voltage | 180 V | 180 V |
| MPP voltage range | 380 - 850 V | 340 - 850 V |
| Rated input voltage | 680 V | 680 V |
| Max. input current per MPP controller | 9 A | 9 A |
| Max. input current for parallel connection | - | 13 A |
| Number of independent MPP inputs | 1 | 2 |

Output side (AC) single-phase grid feeding

| | | |
|--|--|----------------------|
| Maximum output (cos $\varphi = 1$) | 3.000 W | 3.600 W |
| Apparent power (cos φ , adj) | 3.000 VA | 3.600 VA |
| Grid voltage | 1/N/PE, AC, 230 V | 1/N/PE, AC, 230 V |
| Number of supply phases | 1 | 1 |
| Rated grid frequency | 50 Hz | 50 Hz |
| Max. output current per phase | 13,1 A | 15,7 A |
| Maximum efficiency | > 95,7 % | > 95,8 % |
| European efficiency | > 95,0 % | > 95,1 % |
| Max. noise | < 33 dBA | < 33 dBA |
| Setting range of the power factor cos $\varphi_{AC,r}$ | 0.95 capacitive ... 1 ... 0.95 inductive | |

Dimensions

| | | |
|------------------------------|-----------------|-----------------|
| Dimensions in mm (W x H x D) | 420 x 350 x 211 | 420 x 350 x 211 |
| Weight in kg | approx. 19.8 | approx. 20.0 |

System data

| | |
|----------------------------|--|
| Cooling | Temperature-controlled fan |
| Ambient temperature | -20°C till 60°C |
| Relative humidity | 0 - 95 % |
| Type of grid monitoring | According to the countries' certificates |
| Protection class | SKL I |
| Galvanic isolation | Transformerless |
| Protection class | IP 55 (inner + outer) |
| Reverse voltage protection | Short-circuit diode on DC side |
| Personal protection | Universal current sensitive residual current circuit breaker and earth fault monitoring |
| Communication interfaces | Ethernet RJ45 (2 x with communicationboard 2, incl. integrated switch), RS485, S0, 4 x analogue inputs |
| Connections | DC: MC4; AC: spring-loaded terminal strip |
| Disconnection device | Integrated electronic DC circuit breaker |
| Standards and guidelines | DIN VDE 0100-712; IEC 60364-7-712; CEI 64-8/7; DIN EN 61000-3-2:2006; DIN EN 61000-3-3:1995 + A1:2001 + A2:2005; DIN EN 61000-6-2:2005; DIN EN 61000-6-3:2007; DIN EN 50178:1998; DIN V VDE V 0126-1-1 (VDE V 0126-1-1):2006-02, „Eigenerzeugungsanlagen am Niederspannungsnetz“, 4. Ausgabe 2001; BDEW-TR Erzeugungsanlagen am Mittelspannungsnetz, Ausgabe Juni 2008; VDE-AR-N 4105, „Erzeugungsanlagen am Niederspannungsnetz“; ÖVE/ÖNORM E 8001-4-712:2009-12, Anhang A (AT); EN 50438:2007 (NL, PT); RD 1663/2000; RD 661/2007; C10/11-2009.05; G83/1-1; G59/2; ENEL DK 5940 Ed.2.2; IEC 60947- 3:1999 + Corrigendum:1999 + A1:2001 + Corrigendum 1:2001 + A2:2005; DIN EN 60947-3; VDE 0660-107:2006-03; IEC 60364-7-712:2002-05; DIN VDE 0100-712:2006-06 |
| Configurable for | DE, AT, CH, FR, LU, BE, NL, IT, ES, PT, GR, CY, CZ, SI, BA, BG, EE, HR, LV, LT, ME, RO, RS, SK, TR, UK, MT, DK, SE, PL |

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.

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