

SOLPLUS 50

Technical Data



DC input

Max. recommended DC output	6000 W
Max. DC voltage	850 V
Min. DC start voltage	380 V
Rated input voltage	345 V
Max. MPP voltage	750 V
Min. MPP voltage	345 V
Max. input current	16.2 A
Number of MPP trackers	1

AC output

Nominal AC output	5000 W 4600 W*
Max. output AC	5400 W
Max. AC output voltage	253 V
Min. AC output voltage	210 V
Nominal output voltage	230 V
Max. output current	21.7 A
Max. apparent power	5400 VA
Cos φ	- 0,8 to + 0,8
Rated frequency	50 Hz
Min. frequency	45 Hz
Max. frequency	65 Hz
Rated power factor	> 0.99

Mechanical data

Dimensions (W x H x D) IP 21	450 x 303 x 130 mm
Dimensions (W x H x D) IP 54	510 x 315 x 130 mm
Weight IP 21 IP 54	18 kg 21 kg
Ambient temperature	- 20 °C to + 60 °C**
Topology	Transformerless
Cooling concept	Free convection
Noise emission	< 35 db(A)
Max. humidity	90 %
DC-plug in	2 3
Protection class	IP 21 IP 54
AC connection	Wieland RST 3 3x4 mm ²
DC connection	LC4 (MC4 compatible)

* Applies to VDE-AR-N 4105

** Derating possible from higher ambient temperatures.

Subject to change without notice. Errors excepted.

Security

DC circuit breaker	✓
All-pole AC/DC sensitive residual current device	✓
Earth fault monitoring	✓
Lockable front	–
Kind of grid monitoring	Single-phase (VDE-AR-N 4105)
Protection class II	IEC 62103 / DIN EN 50178

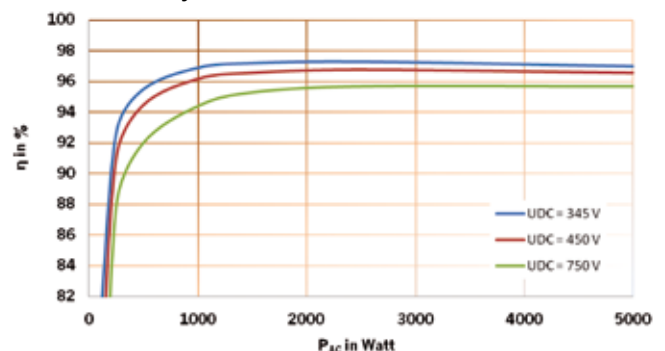
Communication

Display	20 signs, 4-line
Language	Ger/ Eng / Spa / Fre/ Ita / Tur/ Cze
Data logger	Integrated, freely programmable
Memory size	32 KB
Interface	RS 485, RS 232, Ethernet Analogue IN/OUT, Digital IN/OUT, Relais

Efficiency

Max. efficiency	97.4 %
Euro ETA	97 %

Efficiency curve SOLPLUS 50



Internal consumption at night	0.01 W
Internal consumption at day	< 9 W
Input from	10 W

Conformity and warranty

Conformity	www.solutronic.de
EU conformity	✓
VDE-AR-N 4105	✓
AS 4777.2	✓
EN 50438:2007	✓
G83/1-1	✓
Warranty	6 years, 12 years optional

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