

# SOLPLUS 120

## Technical Data



### DC input

Max. recommended DC output	14400 W
Max. DC voltage	850 V
DC start voltage	380 V
Rated input voltage	345 V
Max. MPP voltage	750 V
Min. MPP voltage	345 V
Max. input current	3 x 13.2 A
Number of MPP trackers	3

### AC output

Nominal AC output	12000 W
Max. AC output	13200 W
Max. AC output voltage	253 V
Min. AC output voltage	210 V
Nominal output voltage	3 x 230 V   400 V
Max. output current	3 x 17.4 A
Max. apparent power	13200 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)	400 x 620 x 230 mm
Weight	40 kg
Ambient temperature	- 20 °C to + 60 °C*
Topology	Transformerless
Cooling concept	Free convection
Noise emission	< 35 db(A)
Max. humidity	90 %
Max. number of strings	2 per tracker
Protection class	IP 65
AC connection	Wieland RST 5 5x4 mm <sup>2</sup>
DC connection	Tyco   LC4 (MC4 compatible)

\* 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	3-phase (VDE-AR-N 4105)
Protection class II	IEC 62103   DIN EN 50178

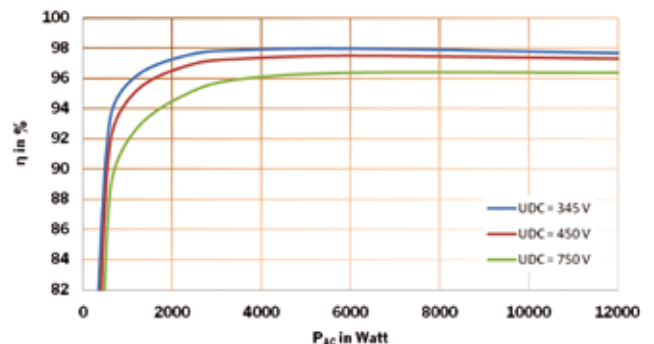
### Communication

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, Ethernet

### Efficiency

Max. efficiency	98 %
Euro ETA	97.3 %

Efficiency curve SOLPLUS 120



Internal consumption at night	0.03 W
Internal consumption at day	< 7 W
Input from	10 W

### Conformity and warranty

Conformity	www.solutronic.de
EU conformity	✓
VDE-AR-N 4105	✓
AS 4777.2	✓
EN 50438:2007	✓
G59	✓
Warranty	6 years, 12 years optional

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