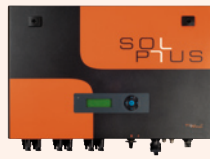


# SOLPLUS 120

## Technical Data



### DC input

Max. recommended DC output	14400 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	3 x 13.2 A
Number of MPP trackers	3

### AC output

Nominal AC output	12000 W
Max. output AC	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	12000 VA
cos $\varphi$	-0,8 ... +0,8
Distortion factor	< 4 %
Rated frequency	50 Hz
Min. frequency	45 Hz
Max. frequency	65 Hz
Rated power factor	> 0.99

### Mechanical data

Dimensions in mm (W x H x D)	400 x 620 x 230
Weight	40 Kg
Ambient temperature	-20 °C ... +60 °C
Derating	+40 °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)

### Security

DC circuit breaker	✓
All-pole-sensitive leakage current monitoring unit	✓
Earth fault monitoring	✓
Lockable front	✓
Kind of grid monitoring	3-phase (according to VDE-AR-N 4105)
Protection class II	IEC 62103 / DIN EN 50178

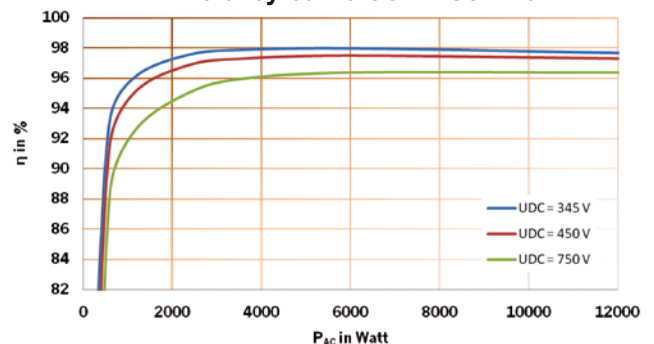
### Communication

Display	20 signs, 4-line
Language	Ger/Eng/Spa/Fre/Ita/Tur/Cze
Data logger	integrated, freely programmable
Memory size	32 kB
Interface	RS485, Ethernet

### Efficiency

Max. efficiency	98 %
Euro ETA	97.3 %

Efficiency curve SOLPLUS 120



### Efficiency

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	✓
G83/1-1	✓
Warranty	6 years
	12 years optional

Subject to change without notice. Errors excepted.

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