



SOLON Top Class

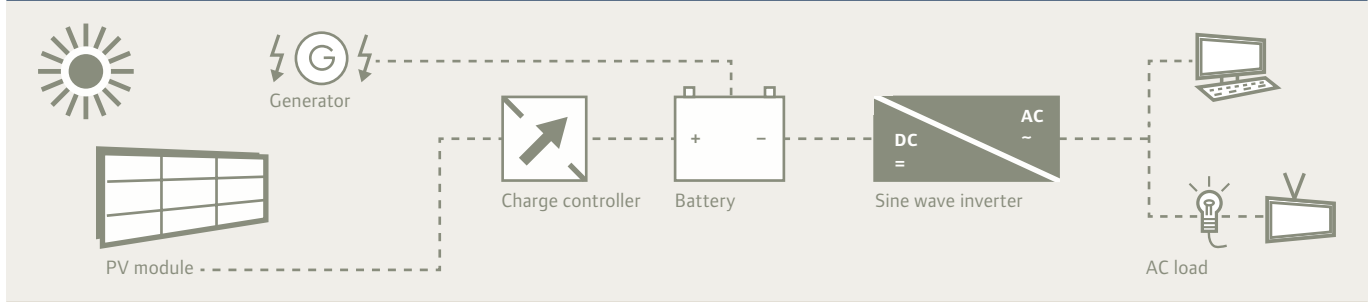
Off-grid sine wave inverter.

20/12 · 22/24 · 20/36 · 22/48 · 25/110

- › Pure sine wave
- › Short circuit and overload security
- › High efficiency factor
- › Galvanic isolation

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Off-grid application



Input variables (DC)		20/12	22/24	20/36	22/48	25/110
Rated voltage DC	$U_{DC\ IN}$	12 V	24 V	36 V	48 V	110 V
Input voltage range	U_{DC}	10,5 – 16,0 V_{DC}	21,0 – 32,0 V_{DC}	31,0 – 47,0 V_{DC}	42,0 – 64,0 V_{DC}	96,0 – 148,0 V_{DC}
Dynamic low voltage cut (depending on load)	U_{DC}	10,5 – 9,0 V_{DC}	21,0 – 18,0 V_{DC}	31,0 – 27,0 V_{DC}	42,0 – 36,0 V_{DC}	96,0 – 84,0 V_{DC}
Rated current DC	$I_{DC\ IN}$	195 A	110 A	61 A	54 A	27 A
Max. current	$I_{DC\ max}$	520 A	205 A	180 A	96 A	74 A

Output variables (AC)

Rated output current AC	$I_{AC\ OUT}$	8,7 A	9,6 A	9 A	9,6 A	12 A
Short circuit current (max. 0.5 s)	$I_{AC\ K}$	24 A	24 A	24 A	16 A	16 A
Continuous power	P_{AC}	1,800 VA	2,000 VA	1,800 VA	2,000 VA	2,200 VA
Rated power (10 min at $T_A = 20^\circ C$)	P_{10}	2,300 VA	2,900 VA	2,500 VA	2,700 VA	2,900 VA
Rated power (30 min at $T_A = 20^\circ C$)	P_{30}	2,000 VA	2,200 VA	2,200 VA	2,200 VA	2,500 VA
Rated output voltage AC (short circuit proof)	$U_{AC\ OUT}$	230 $V_{AC} \pm 2\%$	230 $V_{AC} \pm 2\%$	230 $V_{AC} \pm 2\%$	230 $V_{AC} \pm 2\%$	230 $V_{AC} \pm 2\%$
Output frequency (pure sine wave)	f_{AC}	50 Hz $\pm 0,5\%$	50 Hz $\pm 0,5\%$	50 Hz $\pm 0,5\%$	50 Hz $\pm 0,5\%$	50 Hz $\pm 0,5\%$
Power factor	$\cos\Phi$	0,3 – 1,0	0,3 – 1,0	0,3 – 1,0	0,3 – 1,0	0,3 – 1,0

Typical data

Dimensions (L x W x H)	456 x 320 x 211 mm	456 x 320 x 211 mm	456 x 320 x 211 mm	456 x 320 x 211 mm	456 x 320 x 211 mm
Weight	20 kg	20 kg	19,5 kg	20 kg	25 kg
Efficiency factor max.	93%	93%	93%	93%	93%
Consumption 230 V_{AC} OK	16 W	12 W	12 W	12 W	13 W
DC breaker	No	125 A	63 A	80 A	80 A
Remote control ON/OFF	Yes, external switch	Yes, external switch	Yes, external switch	Yes, external switch	Yes, external switch

Housing protection	IP 20
Status indication	LED
Reset after short circuit	Every 60 s
Reset after overload	Every 60 s
Reset after overtemperature	Automatically after reaching semiconductor temp. $45^\circ C$
Reset after battery failure	Automatically after reaching $U_{DC\ IN}$

Ambient temperature range	$-25^\circ C$ to $+50^\circ C$ (max. 95% rH, non-condensing)
Consumption standby/OFF	ca. 0.5 W (testpulse 800 ms)/0 W
Toroidal transformer	Galvanically isolated EN61558 (ICE61558)
Temperature and load controlled fan	ON $55^\circ C$ /OFF $45^\circ C$, $P_D > 80\%$
Warranty	2 years
Certificate	Declaration of conformity



SOLON Inverters AG
Bürgerfeldstrasse 19
8730 Uznach/SG · Switzerland

SOLON SE
Am Studio 16
12489 Berlin · Germany

SOLON S.p.A.
Via dell'Industria e dell'Artigianato 2
35010 Carmignano di Brenta PD · Italy

Phone +41 55 24641-14
Fax +41 55 24641-16
E-Mail inverters@solon.com

Phone +49 30 81879-0
Fax +49 30 81879-9999
E-Mail components@solon.com

Phone +39 049 9458200
Fax +39 049 9458299
E-Mail solon.it@solon.com

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