



SOLON Top Class

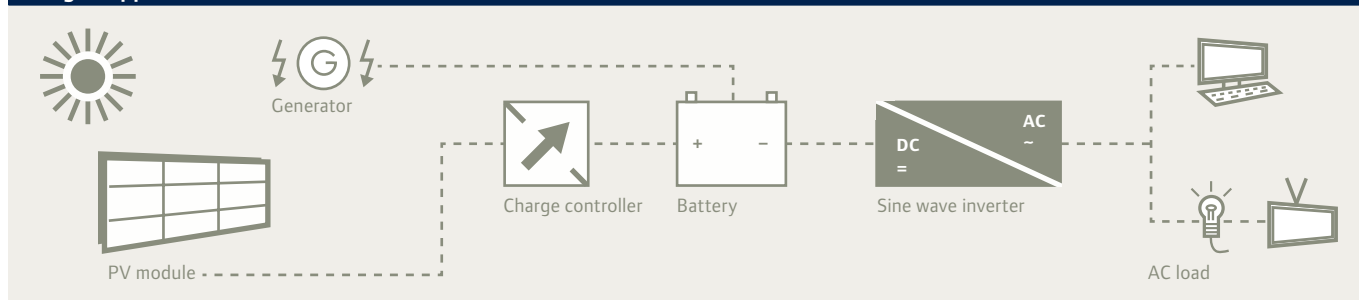
Off-grid sine wave inverter.

13/12 · 15/24

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

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Off-grid application



Input variables (DC)

		13/12	15/24
Rated voltage DC	$U_{DC IN}$	12 V	24 V
Input voltage range	U_{DC}	10,5 – 16,0 V _{DC}	21,0 – 32,0 V _{DC}
Dynamic low voltage cut (depending on load)	U_{DC}	10,5 – 9,0 V _{DC}	21,0 – 18,0 V _{DC}
Rated current DC	$I_{DC IN}$	125 A	72 A
Max. current	$I_{DC max}$	340 A	140 A

Output variables (AC)

Rated output current AC	$I_{AC OUT}$	5,7 A	6,5 A
Short circuit current (max. 0.5 s)	$I_{AC K}$	16 A	16 A
Continuous power	P_{AC}	1,000 VA	1,200 VA
Rated power (10 min at $T_A = 20^\circ C$)	P_{10}	1,400 VA	1,700 VA
Rated power (30 min at $T_A = 20^\circ C$)	P_{30}	1,300 VA	1,500 VA
Rated output voltage AC (short circuit proof)	$U_{AC OUT}$	230 V _{AC} ± 2 %	230 V _{AC} ± 2 %
Output frequency (pure sine wave)	f_{AC}	50 Hz ± 0,5 %	50 Hz ± 0,5 %
Power factor	$\cos\Phi$	0,3 – 1,0	0,3 – 1,0

Typical data

Dimensions (L x W x H)	385 x 260 x 182 mm	385 x 260 x 182 mm
Weight	15.5 kg	16 kg
Efficiency factor max.	92 %	93 %
Consumption 230 V _{AC} OK	10 W	12 W
DC breaker	No	100 A
Remote control ON/OFF	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°C
Reset after battery failure	Automatically after reaching $U_{DC IN}$

Ambient temperature range	–25°C to +50°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°C/OFF 45°C, $P_D > 80\%$
Warranty	2 years
Certificate	Declaration of conformity



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