



## *SOLON Top Class*

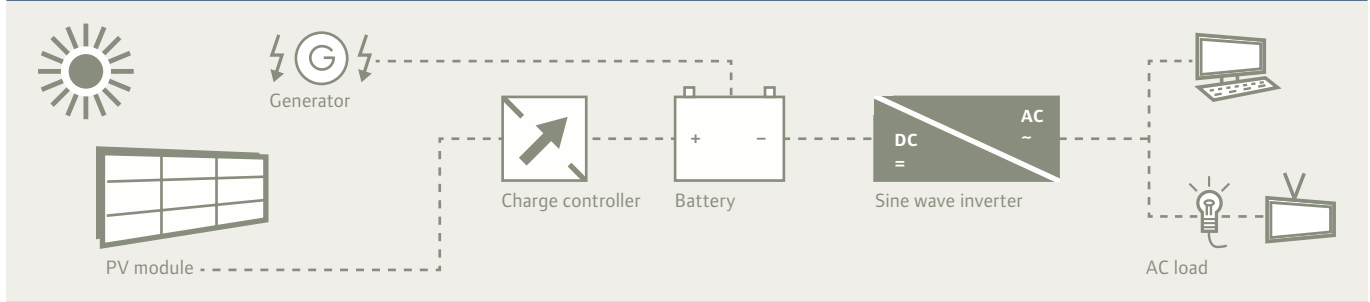
Off-grid sine wave inverter.

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

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

# SOLON Top Class

## 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°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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