



## *SOLON Top Class*

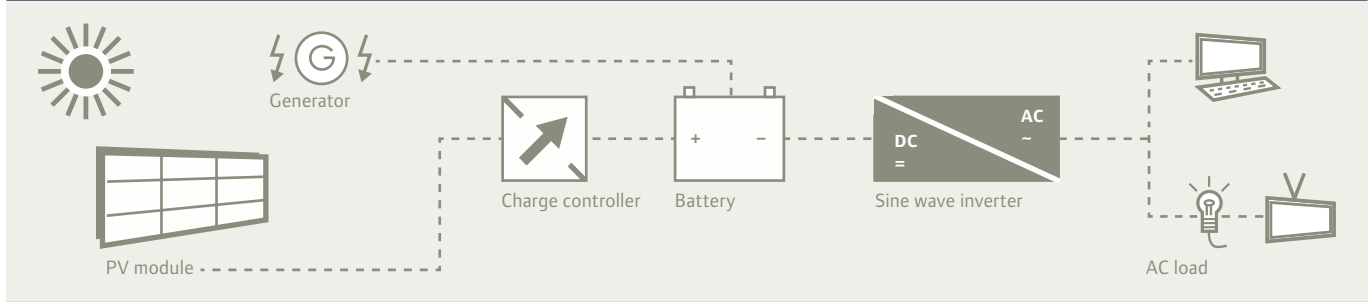
Off-grid sine wave inverter.

30/24 · 35/48

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

# SOLON Top Class

## Off-grid application



Input variables (DC)		30/24	35/48
Rated voltage DC	$U_{DC IN}$	24 V	48 V
Input voltage range	$U_{DC}$	21,0 – 32,0 $V_{DC}$	42,0 – 64,0 $V_{DC}$
Dynamic low voltage cut (depending on load)	$U_{DC}$	21,0 – 18 $V_{DC}$	42,0 – 36,0 $V_{DC}$
Rated current DC	$I_{DC IN}$	150 A	80 A
Max. current	$I_{DC max}$	340 A	210 A

## Output variables (AC)

Rated output current AC	$I_{AC OUT}$	13 A	15,6 A
Short circuit current (max. 0.5 s)	$I_{AC K}$	35 A	24 A
Continuous power	$P_{AC}$	2,700 VA	3,200 VA
Rated power (10 min at $T_A = 20^\circ C$ )	$P_{10}$	3,200 VA	3,900 VA
Rated power (30 min at $T_A = 20^\circ C$ )	$P_{30}$	3,000 VA	3,500 VA
Rated output voltage AC (short circuit proof)	$U_{AC OUT}$	230 $V_{AC} \pm 2\%$	230 $V_{AC} \pm 2\%$
Output frequency (pure sine wave)	$f_{AC}$	50 Hz $\pm 0,5\%$	50 Hz $\pm 0,5\%$
Power factor	$\cos\Phi$	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
Weight	27 kg	30 kg
Efficiency factor max.	94%	93%
Consumption 230 $V_{AC}$ OK	22 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. $45^\circ C$
Reset after battery failure	Automatically after reaching $UDC_{IN}$

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 $45^\circ C$ , $P_D > 80 W$
Warranty	2 years
Certificate	Declaration of conformity



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