



## *SOLON Top Class 3P*

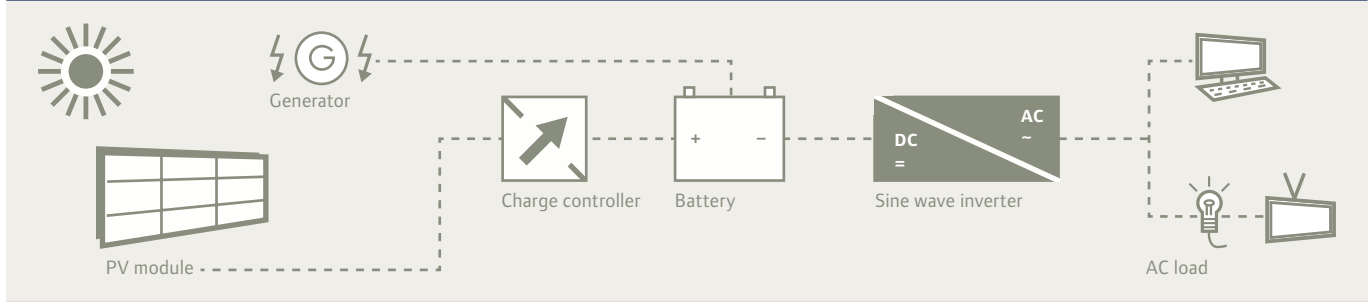
Off-grid sine wave inverter.

10.5/48-3P

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

# SOLON Top Class 3P

## Off-grid application



### Input variables (DC) 10.5/48-3P

Rated voltage DC	$U_{DC IN}$	48 V
Input voltage range	$U_{DC}$	42,0 – 64,0 V <sub>DC</sub>
Dynamic low voltage cut (depending on load)	$U_{DC}$	42,0 – 64,0 V <sub>DC</sub>
Rated current DC	$I_{DC IN}$	83 A (3 x)
Max. current	$I_{DC max}$	251 A (3 x)

### Output variables (AC)

Rated output current AC	$I_{AC OUT}$	17 A (3 x)
Short circuit current (max. 0.5 s)	$I_{AC K}$	38 A (3 x)
Continuous power	$P_{AC}$	9.6 kVA
Rated power (10 min at $T_A = 20^\circ C$ )	$P_{10}$	11.7 kVA
Rated power (30 min at $T_A = 20^\circ C$ )	$P_{30}$	10.5 kVA
Rated output voltage AC (short circuit proof)	$U_{AC OUT}$	230 V <sub>AC</sub> ± 2% (3 x)
Output frequency (pure sine wave)	$f_{AC}$	50 Hz ± 0.5%
Power factor	$\cos\Phi$	0,3 – 1,0

### Typical data

Dimensions (L x W x H)	456 x 320 x 211 mm (3 x)
Weight	90 kg (3 x 30 kg)
Efficiency factor max.	93%
Consumption 230 V <sub>AC</sub> OK	16 W (3 x)
DC breaker	100 A (3 x)
Remote control ON/OFF	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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