SOLON Allegro

Off-grid sine wave inverter.

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

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Don't leave the planet to the stupid

SOLON Allegro

Off-grid application

Input variables (DC)		08/12	10/24	10/48
Rated voltage DC	$U_{DC\,IN}$	12 V	24 V	48 V
Input voltage range	U_{DC}	10,5 – 16,0 V_{DC}	21,0 – 32,0 V_{DC}	42,0 – 64,0 V_{DC}
Dynamic low voltage cut (depending on load)	U_{DC}	10,5 – 9,0 V_{DC}	21,0 – 18,0 V_{DC}	42,0 – 36,0 V_{DC}
Rated current DC	$I_{DC\,IN}$	78 A	50 A	25 A
Max. current	$I_{DC\,max}$	250 A	160 A	80 A

Output variables (AC)				
Rated output current AC	$I_{AC\,OUT}$	3,5 A	4,2 A	4,2 A
Short circuit current (max. 0.5 s)	$I_{AC\,K}$	8 A	11 A	11 A
Continuous power	P_{AC}	850 VA	1,000 VA	1,000 VA
Rated power (10 min at T_A = 20°C)	P_{10}	1,100 VA	1,300 VA	1,300 VA
Rated power (30 min at T_A = 20°C)	P_{30}	850 VA	1,000 VA	1,000 VA
Rated output voltage AC (short circuit proof)	$U_{AC\,OUT}$	230 V_{AC} ± 2 %	230 V_{AC} ± 2 %	230 V_{AC} ± 2 %
Output frequency (pure sine wave)	f_{AC}	50 Hz ± 0,5 %	50 Hz ± 0,5 %	50 Hz ± 0,5 %
Power factor	CosPhi	0,3 – 1,0	0,3 – 1,0	0,3 – 1,0

Typical data			
Dimensions (L x W x H)	360 x 210 x 120 mm	360 x 210 x 120 mm	360 x 210 x 120 mm
Weight	10 kg	11 kg	11 kg
Efficiency factor max.	94 %	94 %	94 %
Consumption 230 V_{AC} OK	8 W	10 W	10 W
DC breaker	100 A	80 A	32 A
Remote control ON/OFF	via RS 232	via RS 232	via RS 232

Housing protection	IP 20
Status indication	LED RS 232
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 UDC_{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 transformator	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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