



ASP Allegro

High degree of efficiency

The selection of high-quality components allows for an extremely high degree of efficiency and thus reduces losses to a minimum.

Galvanic isolation

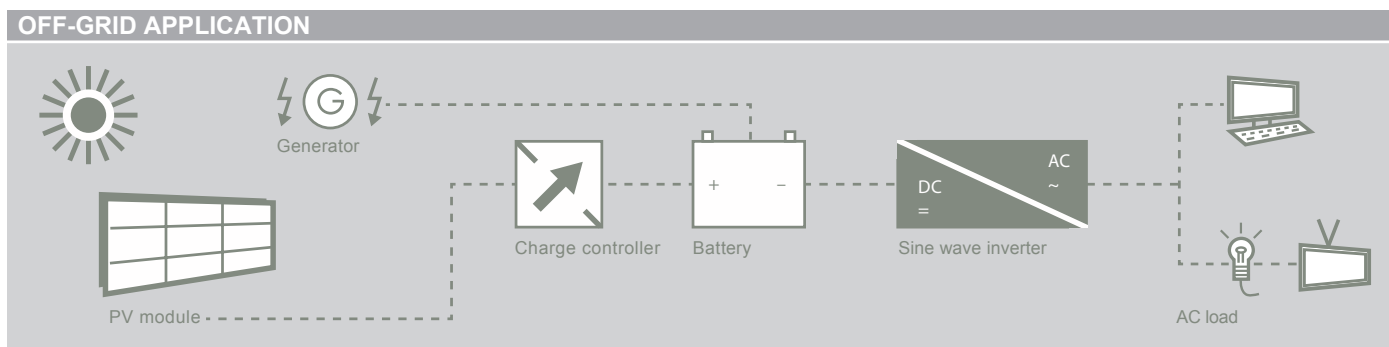
A galvanic isolation exists between the DC side (direct current side) and the AC side (alternating current side) which is realised by a 50 Hz toroidal transformer.

True sinusoidal wave

The public electrical grid has a sine-shaped voltage flow which is designated as sinusoidal voltage. Our devices recreate this sinusoidal voltage and provide the consumers with the same or better quality of sinusoidal voltage as the public electricity grid.

ASP Allegro 08/12, 10/24

Off-grid sine wave inverter



The inverter converts the DC battery voltage (direct current) into 230V_{AC} (sinusoidal alternating current). Voltage-controlled, it provides a stabilized, quartz-precise direct current of 230V_{AC}/50Hz (other voltages and frequencies as per type label).

All conventional consumption items such as energy-saving light bulbs, computers, engines, pumps, radio and HiFi systems can be operated with the sinusoidal inverter.

INPUT (DC)	10 / 36
Rated voltage U _{DC IN}	36 V
Input voltage range U _{DC}	32,0 ... 48,0 V
Dynamic low voltage cut off U _{DC}	32,0 ... 27,0 V
Rated current I _{DC IN}	33 A
Current I _{DC IN} max.	105 A

OUTPUT (AC)	10 / 36
Rated output current I _{AC Out}	4,2 A
Short circuit current I _{AC K} (max. 0.5 s)	11 A
Rated power P ₁₀ (10 min at T _A =20 °C) ¹⁾	1600 VA
Rated power P ₃₀ (30 min at T _A =20 °C) ¹⁾	1450 VA
Continuous power P _D ¹⁾	1000 VA
Rated output voltage U _{AC Out}	230 V ± 2 %
Output frequency f _{AC}	50 Hz ± 0,5 %
Power factor (cos φ)	0,3 ... 1,0

1) This values correspond to rated voltage 36 V DC.

GENERAL SPECIFICATION	10 / 36
Model name	ASP Allegro 10/36
Size (L x W x D)	360 x 210 x 120 mm
Weight	11 kg
Efficiency factor max.	94 %
Adjustable standby level (logarithmic)	2 ... 40 W
Consumption standby / OFF	Ca. 0,5 W / 0 W
Consumption 230V _{AC} OK	10 W
DC breaker / fuse	63 A
Remote control ON / OFF	RS232
Protection degree	IP20
Status indication	LED
Reset after short circuit	Automatically every 60 s
Reset after overload	Automatically every 60 s
Reset after overtemperature	Automatically after reaching semiconductor temperature +45 °C
Reset after battery failure	Automatically after reaching U _{DC IN}
Ambient temperature range	-25 ... +50 °C (max. 95 % rH, non-condensing)
Temperature and load controlled fan	ON 55 °C / OFF 45 °C, P _D > 80 %
RS232 interface	9-Pin, female
Toroidal transformer (galvanically isolated)	EN61558 (IEC61558)
Warranty	2 years
Declaration of conformity	CE
Included in delivery	Connector for non-heating apparatus

Fabrimex AG
 Techcenterstrasse 2
 CH-8608 Bubikon
 Switzerland
 Email: info@fabrimex.com
 Tel: +41 (0)55 253 3190
 Mondays to Fridays from 8 am to 5 pm (apart from official Bank Holidays)

www.fabrimex.com

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