



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

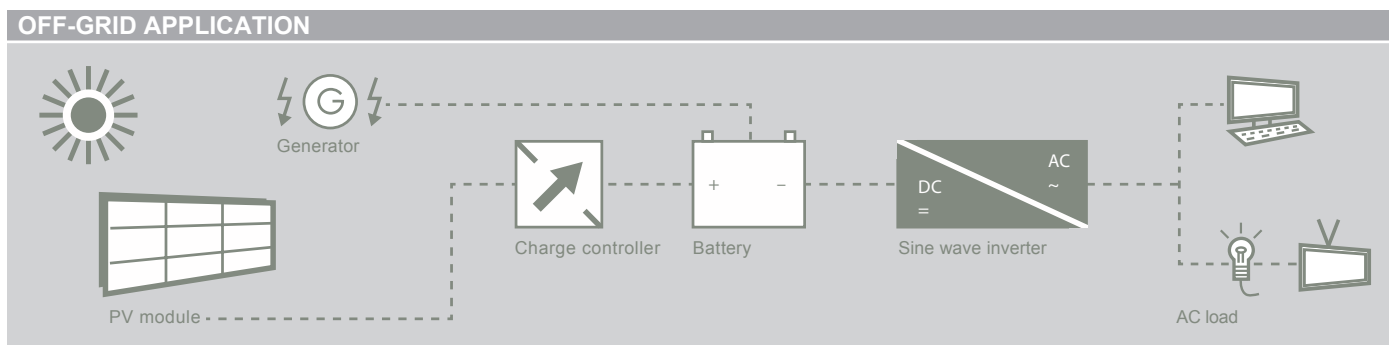
A galvanic isolation exists between the DC side (direct current side) and the AC side (alternating current side) which is realised by a 50 Hz toroidal transformer.

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, 10/48

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)	08 / 12	10 / 24	10 / 48
Rated voltage U _{DC IN}	12 V	24 V	48 V
Input voltage range U _{DC}	10,5 ... 16,0 V	21,0 ... 32,0 V	42,0 ... 64,0 V
Dynamic low voltage cut off U _{DC}	10,5 ... 9,0 V	21,0 ... 18,0 V	42,0 ... 36,0 V
Rated current I _{DC IN}	78 A	50 A	25 A
Current I _{DC IN} max.	250 A	160 A	80 A

OUTPUT (AC)	08 / 12	10 / 24	10 / 48
Rated output current I _{AC Out}	3,5 A	4,2 A	4,2 A
Short circuit current I _{AC K} (max. 0.5 s)	8 A	11 A	11 A
Rated power P ₁₀ (10 min at T _A =20 °C) ¹⁾	1100 VA	1600 VA	1600 VA
Rated power P ₃₀ (30 min at T _A =20 °C) ¹⁾	950 VA	1450 VA	1450 VA
Continuous power P _D ¹⁾	850 VA	1000 VA	1000 VA
Rated output voltage U _{AC Out}	230 V ± 2 %	230 V ± 2 %	230 V ± 2 %
Output frequency f _{AC}	50 Hz ± 0,5 %	50 Hz ± 0,5 %	50 Hz ± 0,5 %
Power factor (cos φ)	0,3 ... 1,0	0,3 ... 1,0	0,3 ... 1,0

1) This values correspond to rated voltage 12 V DC / 24 V DC.

GENERAL SPECIFICATION	08 / 12	10 / 24	10 / 48
Model name	ASP Allegro 08/12	ASP Allegro 10/24	ASP Allegro 10/48
Size (L x W x D)	360 x 210 x 120 mm		
Weight	10 kg	11 kg	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	8 W	10 W	10 W
DC breaker / fuse	100 A	80 A	32 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		

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