



## ASP Piccolo

### 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

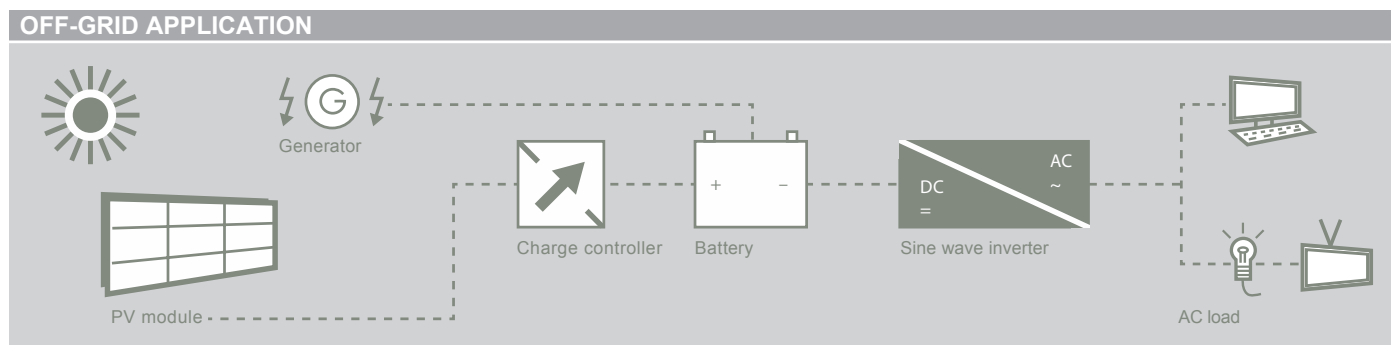
A galvanic isolation exists between the DC side (direct current side) and the AC side (alternating current side) which is realised by a 50 Hz toroidal transformer.

### 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 Piccolo 1.5/12, 2.5/24

## Off-grid sine wave inverter



The inverter converts the DC battery voltage (direct current) into 230V<sub>AC</sub> (sinusoidal alternating current). Voltage-controlled, it provides a stabilized, quartz-precise direct current of 230V<sub>AC</sub>/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)	1.5 / 12	2.5 / 24
Rated voltage U <sub>DC IN</sub>	12 V	24 V
Input voltage range U <sub>DC</sub>	10,5 ... 16,0 V	21,0 ... 32,0 V
Dynamic low voltage cut off U <sub>DC</sub>	10,5 ... 9,0 V	21,0 ... 18,0 V
Rated current I <sub>DC IN</sub>	14 A	12 A
Current I <sub>DC IN</sub> max.	32 A	37 A

OUTPUT (AC)	1.5 / 12	2.5 / 24
Rated output current I <sub>AC Out</sub>	0,7 A	1,1 A
Short circuit current I <sub>AC K</sub> (max. 0.5 s)	2 A	3 A
Rated power P <sub>10</sub> (10 min at T <sub>A</sub> =20 °C)	195 VA	350 VA
Rated power P <sub>30</sub> (30 min at T <sub>A</sub> =20 °C)	180 VA	330 VA
Continuous power P <sub>D</sub>	150 VA	250 VA
Rated output voltage U <sub>AC Out</sub>	230 V ± 2 %	230 V ± 2 %
Output frequency f <sub>AC</sub>	50 Hz ± 0,5 %	50 Hz ± 0,5 %
Power factor (cos φ)	0,3 ... 1,0	0,3 ... 1,0

GENERAL SPECIFICATION	1.5 / 12	2.5 / 24
Model name	ASP Piccolo 1.5 / 12	ASP Piccolo 2.5 / 24
Size (L x W x D)	190 x 110 x 75 mm	
Weight	1,8 kg	2,5 kg
Efficiency factor max.	92 %	93 %
Consumption 230 V <sub>AC</sub> OK	2,5 W	3 W
Protection degree	IP20	
Status indication	LED	
Reset after short circuit	Every 60 s	
Reset after overload	Every 60 s	
Reset after overtemperature	Automatically after reaching semiconductor temperature +45 °C	
Reset after battery failure	Automatically after reaching U <sub>DC IN</sub>	
Ambient temperature range	-25 ... +50 °C (max. 95 % rH, non-condensing)	
Temperature and load controlled fan	ON 55 °C / OFF 45 °C, P <sub>D</sub> > 80 %	
Toroidal transformer (galvanically isolated)	EN61558 (IEC61558)	
Warranty	2 years	
Certificate	CE	
Included in delivery	Connector for non-heating apparatus	

### asp ag advanced solar products

Bürgerfeldstrasse 19  
CH-8730 Uznach/SG  
Switzerland  
Email: [info@asp-ag.com](mailto:info@asp-ag.com)  
Hotline Verkauf: +41 55 616 6100  
Mondays to Fridays from 8 am to 5 pm (apart from official Bank Holidays)  
[www.asp-ag.com](http://www.asp-ag.com)

