



ASP Domino

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

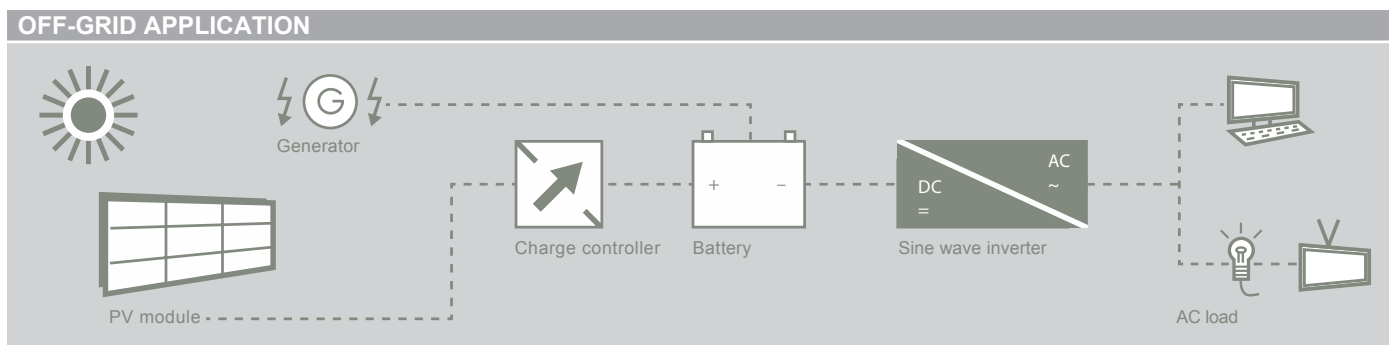
A galvanic isolation exists between the DC side (direct current side) and the AC side (alternating current side) which is realised by a 50 Hz toroidal transformer.

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 Domino 05/12, 07/24

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 $230V_{AC}/50\text{Hz}$ (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)	05 / 12	07 / 24
Rated voltage $U_{DC\ IN}$	12 V	24 V
Input voltage range U_{DC}	10,5 ... 16,0 V	21,0 ... 32,0 V
Dynamic low voltage cut off U_{DC}	10,5 ... 9,0 V	21,0 ... 18,0 V
Rated current $I_{DC\ IN}$	50 A	35 A
Current $I_{DC\ IN}$ max.	160 A	150 A

OUTPUT (AC)	05 / 12	07 / 24
Rated output current $I_{AC\ Out}$	2,1 A	3,0 A
Short circuit current $I_{AC\ K}$ (max. 0.5 s)	6 A	8 A
Rated power P_{10} (10 min at $T_A=20^\circ\text{C}$)	675 VA	1300 VA
Rated power P_{30} (30 min at $T_A=20^\circ\text{C}$)	620 VA	1100 VA
Continuous power P_D	550 VA	710 VA
Rated output voltage $U_{AC\ Out}$	$230\text{ V} \pm 2\%$	$230\text{ V} \pm 2\%$
Output frequency f_{AC}	$50\text{ Hz} \pm 0,5\%$	$50\text{ Hz} \pm 0,5\%$
Power factor (cos ϕ)	0,3 ... 1,0	0,3 ... 1,0

GENERAL SPECIFICATION	05 / 12	07 / 24
Model name	ASP Domino 05/12	ASP Domino 07/24
Size (L x W x D)	275 x 155 x 96 mm	
Weight	5,1 kg	6,8 kg
Efficiency factor max.	93 %	94 %
Adjustable standby level (logarithmic)	2 ... 40 W	
Consumption standby / OFF	Ca. 1,5 W / 10 mA	
Consumption $230V_{AC}$ OK	5 W	8 W
DC breaker / fuse	63 A	
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 $+45^\circ\text{C}$	
Reset after battery failure	Automatically after reaching $U_{DC\ IN}$	
Ambient temperature range	$-25 \dots +50^\circ\text{C}$ (max. 95 % rH, non-condensing)	
Temperature and load controlled fan	ON 55°C / OFF 45°C , $P_D > 80\%$	
Toroidal transformer (galvanically isolated)	EN61558 (IEC61558)	
Warranty	2 years	
Certificate	CE	
Included in delivery	Connector for non-heating apparatus	

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