



ASP Top Class

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.

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Off-grid sine wave inverter

INPUT (DC)	13 / 12	20 / 12	15 / 24	22 / 24	30 / 24	22 / 48	35 / 48	10.5 / 48-3P
Rated voltage $U_{DC\ IN}$	12 V	12 V	24 V	24 V	24 V	48 V	48 V	48 V
Input voltage range U_{DC}	10,5 ... 16,0 V	10,5 ... 16,0 V	21,0 ... 32,0 V	21,0 ... 32,0 V	21,0 ... 32,0 V	42,0 ... 64,0 V	42,0 ... 64,0 V	42,0 ... 64,0 V
Dynamic low voltage cut off U_{DC}	10,5 ... 9,0 V	10,5 ... 9,0 V	21,0 ... 18,0 V	21,0 ... 18,0 V	21,0 ... 18,0 V	42,0 ... 36,0 V	42,0 ... 36,0 V	42,0 ... 36,0 V
Rated current $I_{DC\ IN}$	125 A	195 A	72 A	110 A	150 A	54 A	80 A	83 A (3x)
Current $I_{DC\ IN}$ max.	340 A	520 A	140 A	205 A	340 A	96 A	210 A	251 A (3x)

OUTPUT (AC)	13 / 12	20 / 12	15 / 24	22 / 24	30 / 24	22 / 48	35 / 48	10.5 / 48-3P
Rated output current $I_{AC\ Out}$	5,7 A	8,7 A	6,5 A	9,6 A	13 A	9,6 A	15,6 A	17 A (3x)
Short circuit current $I_{AC\ K}$ (max. 0.5 s)	16 A	24 A	16 A	24 A	35 A	16 A	24 A	38 A (3x)
Rated power P (10 min at $T_A=20^\circ\text{C}$)	1400 VA ¹⁾	2300 VA ¹⁾	1700 VA ²⁾	2900 VA ²⁾	3200 VA ²⁾	2700 VA ³⁾	3900 VA ³⁾	11,7 kVA
Rated power P (30 min at $T_A=20^\circ\text{C}$)	1300 VA ¹⁾	2000 VA ¹⁾	1500 VA ²⁾	2200 VA ²⁾	3000 VA ²⁾	2200 VA ³⁾	3500 VA ³⁾	10,5 kVA
Continuous power P_D	1000 VA ¹⁾	1800 VA ¹⁾	1200 VA ²⁾	2000 VA ²⁾	2700 VA ²⁾	2000 VA ³⁾	3200 VA ³⁾	9,6 kVA
Rated output voltage $U_{AC\ Out}$	230 V \pm 2 %							
Output frequency f_{AC}	50 Hz \pm 0,5 %							
Power factor (cos ϕ)	0,3 ... 1,0							

GENERAL SPECIFICATION	13 / 12	20 / 12	15 / 24	22 / 24	30 / 24	22 / 48	35 / 48	10.5 / 48-3P	
Model name	ASP Top Class 13/12	ASP Top Class 20/12	ASP Top Class 15/24	ASP Top Class 22/24	ASP Top Class 30/24	ASP Top Class 22/48	ASP Top Class 35/48	ASP Top Class 10.5/48-3P	
Size (L x W x D)	385 x 260 x 182 mm	456 x 320 x 211 mm	385 x 260 x 182 mm	456 x 320 x 211 mm	456 x 320 x 211 mm	456 x 320 x 211 mm		456 x 320 x 211 mm (3x)	
Weight	15,5 kg	20 kg	16 kg	20 kg	27 kg	20 kg	30 kg	90 kg (3 x 30)	
Efficiency factor max.	92 %	93 %	93 %	93 %	94 %	93 %			
Adjustable standby level (logarithmic)	5 ... 60 W					5 ... 60 W	4...40 W	-	
Consumption standby / OFF	Ca. 0,5 W / 0 W								
Consumption 230V _{AC} OK	10 W	16 W	12 W	12 W	22 W	12 W		16 W (3x)	
DC breaker / fuse	-	-	100 A	125 A	No	80 A	100 A	100 A (3x)	
Remote control ON / OFF	Yes, with external switch (master)								
Protection degree	IP20								
Status indication	LED								
Reset after short circuit	Automatically every 60 s							- every 30 s	
Reset after overload	Automatically every 60 s							- every 30 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, $P_D > 80\%$								
Alarm contact (insulated relay contact)	No	Yes	No	No	Yes	No	Yes	Yes	
Toroidal transformer (galvanically isolated)	EN61558 (IEC61558)								
Warranty	2 years								
Declaration of conformity	CE								

- 1) This values correspond to rated voltage 12 V DC.
 2) This values correspond to rated voltage 24 V DC.
 3) This values correspond to rated voltage 48 V DC.

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