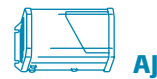


AJ series

The **AJ series** pure sine wave inverters convert battery voltage into high-quality 230/120Vac which can be used for all electrical appliances. Designed to meet industrial and domestic needs, the **AJ** is the optimal solution for stand-alone applications fulfilling the highest requirements in terms of comfort, safety and reliability. Manufactured in Switzerland with a 10-year warranty and delivered with AC- and battery cables, the **AJ** it is a true "plug and forget solution".

Technical data



	AJ 275-12	AJ 350-24	AJ 400-48	AJ 500-12	AJ 600-24	AJ 700-48	
Inverter							
Nominal battery voltage	12 Vdc	24 Vdc	48 Vdc	12 Vdc	24 Vdc	48 Vdc	
Input voltage range	10.5 - 16 Vdc	21 - 32 Vdc	42 - 60 Vdc	10.5 - 16 Vdc	21 - 32 Vdc	42 - 64 Vdc	
Continuous power @ 25°C	200 VA	300 VA	300 VA	400 VA	500 VA	500 VA	
Power 30 min. @ 25°C	275 VA	350 VA	400 VA	500 VA	600 VA	700 VA	
Power 5 min. @ 25°C	350 VA	500 VA	600 VA	575 VA	675 VA	900 VA	
Power 5 sec. @ 25°C	450 VA	650 VA	1000 VA	1000 VA	1200 VA	1400 VA	
Asymmetric load	150 VA	150 VA	200 VA	250 VA	300 VA	300 VA	
Max. efficiency (%)	93 %	94 %	94 %	93 %	94 %	94 %	
Cos j max.	0.1 - 1 up to 200 VA	0.1 - 1 up to 300 VA	0.1 - 1 up to 300 VA	0.1 - 1 up to 400 VA	0.1 - 1 up to 500 VA	0.1 - 1 up to 500 VA	
Detection of the load	2 W only with the solar option -S			Adjustable: 1 to 20 W			
Short-circuit current AC 2 sec.	2.3 Aac (4.6 Aac*)	3.2 Aac (6.4 Aac*)	4.6 Aac (9.2 Aac*)	5.2 Aac (10.4 Aac*)	5.7 Aac (11.4 Aac*)	7 Aac (14 Aac*)	
Output voltage	Sine wave 230 Vac (120 Vac*) ±5 %						
Frequency	50 Hz (60 Hz*) ± 0.05 % (crystal controlled)						
Distortion THD (resistive load)	< 3 % (@ Pnom & Uin nom.)						
Consumption Stand-by	0.3 W**	0.5 W**	1.1 W**	0.4 W	0.6 W	1.5 W	
Consumption "ON" no load	2.4 W	3.5 W	5.2 W	4.6 W	7.2 W	12 W	
Overheat protection (±5°C)	Shut down @ 75°C - Auto-restart @ 70°C						
Overload and short circuit protection	Automatic disconnection with 2 time restart attempt						
Reverse polarity protection as internal fuse	60 A	40 A	25 A	120 A	90 A	60 A	
Deep discharge battery protection	Shut off @ 0.87 x Unom - Automatic restart @ Unom						
Max. battery voltage	Shut off @ >1.33 x Unom - Automatic restart @ < Umax						
Acoustic alarm	Before low battery or overheating disconnection						
General data							
Weight	2.4 kg	2.6 kg		4.5 kg			
Dimension h/w/l [mm]	142 / 163 / 84			142 / 240 / 84			
Protection index IP	IP 30 conforms to DIN 40050						
Certification ECE-R 10 (E24)	✓	✓	✗	✓	✓	✗	
Conformity	Low Voltage Directive (LVD) 2014/35/EU: EN/IEC 62109-1, 62109-2, 62477-1 Electromagnetic Compliance (EMC) Directive 2014/30/EU: EN/IEC 61000-3-3, 61000-6-2, 61000-6-4, 62040-2						
Operating temperature	-20°C to +50°C						
Relative humidity in operation	95 % without condensation						
Ventilation forced	From 45°C ± 5°C						
Acoustic level	< 45 dB (with ventilation)						
Approximate correction of Pnom	-1.5 % / °C from + 25°C						
Recommended battery capacity	> 5 x Pnom/Unom (recommended value in Ah)						
Length cables (Battery/AC out)	1.2 m / 1 m			1.5 m / 1 m			
Options							
Solar regulator	Voltage max.	25 Vdc	45 Vdc	90 Vdc	25 Vdc	45 Vdc	90 Vdc
	Current max.	10 Adc			15 Adc		
	Principle	Floating 3 stages (I/U/UO)					
	Absorption voltage	14.4 Vdc	28.8 Vdc	57.6 Vdc	14.4 Vdc	28.8 Vdc	57.6 Vdc
Remote control (RCM-01/-02/-03)	Floating voltage	13.6 Vdc	27.2 Vdc	54.4 Vdc	13.6 Vdc	27.2 Vdc	54.4 Vdc
		✓	✓	✓	✓	✓	✓



	AJ 1000-12	AJ 1300-24	AJ 2100-12	AJ 2400-24	
Inverter					
Nominal battery voltage	12 Vdc	24 Vdc	12 Vdc	24 Vdc	
Input voltage range	10.5 - 16 Vdc	21 - 32 Vdc	10.5 - 16 Vdc	21 - 32 Vdc	
Continuous power @ 25°C	800 VA	1000 VA	2000 VA	2000 VA	
Power 30 min. @ 25°C	1000 VA	1300 VA	2100 VA	2400 VA	
Power 5 min. @ 25°C	1200 VA	2000 VA	2450 VA	2800 VA	
Power 5 sec. @ 25°C	2200 VA	2800 VA	5000 VA	5200 VA	
Asymmetric load	500 VA	600 VA	1000 VA	1200 VA	
Max. efficiency (%)	93 %	94 %	92 %	94 %	
Cos j max.	0.1 - 1 up to 800 VA	0.1 - 1 up to 1000 VA	0.1 - 1 up to 2000 VA	0.1 - 1 up to 2000 VA	
Detection of the load	2 W only with the solar option -S		Adjustable: 1 to 20 W		
Short-circuit current AC 2 sec.	10 Aac (20 Aac*)	13 Aac (26 Aac*)	26 Aac (52 Aac*)	30 Aac (60 Aac*)	
Output voltage	Sine wave 230 Vac (120 Vac*) ±5%				
Frequency	50 Hz (60 Hz*) ± 0.05 % (crystal controlled)				
Distortion THD (resistive load)	< 3 % (@ Pnom & Uin nom.)				
Consumption Stand-by	0.7 W	1.2 W	0.7 W	1.2 W	
Consumption "ON" no load	10 W	13 W	16 W	16 W	
Overheat protection (±5°C)	Shut down @ 75°C - Auto-restart @ 70°C				
Overload and short circuit protection	Automatic disconnection with 2 time restart attempt				
Reverse polarity protection as internal fuse	125 A	100 A	Not protected	150 A	
Deep discharge battery protection	Shut off @ 0.87 x Unom - Automatic restart @ Unom				
Max. battery voltage	Shut off @ >1.33 x Unom - Automatic restart @ < Umax				
Acoustic alarm	Before low battery or overheating disconnection				
General data					
Weight	8.5 kg		19 kg	18 kg	
Dimension h/w/l [mm]	142 / 428 / 84		273 / 399 / 117		
Protection index IP	IP 30 conforms to DIN 40050		IP 20 conforms to DIN 40050		
Certification ECE-R 10 (E24)	✓	✓	✓	✓	
Conformity	Low Voltage Directive (LVD) 2014/35/EU: EN/IEC 62109-1, 62109-2, 62477-1 Electromagnetic Compliance (EMC) Directive 2014/30/EU: EN/IEC 61000-3-3, 61000-6-2, 61000-6-4, 62040-2				
Operating temperature	-20°C to +50°C				
Relative humidity in operation	95 % without condensation				
Ventilation forced	From 45°C ± 5°C				
Acoustic level	< 45 dB (with ventilation)				
Approximate correction of Pnom	-1.5 % / °C from + 25°C				
Recommended battery capacity	> 5 x Pnom/Unom (recommended value in Ah)				
Length cables (Battery/AC out)	1.5 m / 1 m		1.7 m / 1 m		
Options					
Solar regulator	Voltage max.	25 Vdc	45 Vdc	25 Vdc	45 Vdc
	Current max.	25 Adc		30 Adc	
	Principle	Floating 3 stages (I/U/UO)			
	Absorption voltage	14.4 Vdc	28.8 Vdc	14.4 Vdc	28.8 Vdc
Remote control (JT8)	Floating voltage	13.6 Vdc	27.2 Vdc	13.6 Vdc	27.2 Vdc
		✓	✓	✓	✓

Reliable and compact for your small to medium sized system

- High and steady efficiency
- Outstanding overload capabilities
- Digital regulation and control by microprocessor
- Electrical supply to any type of appliance
- Full internal protection
- Battery lifetime optimization (B.L.O.) function
- Plug&Play, supplied with battery and AC cables

Optional built-in solar regulator

Optional integrated PWM solar charge controller with 3 stages (I/U/UO)

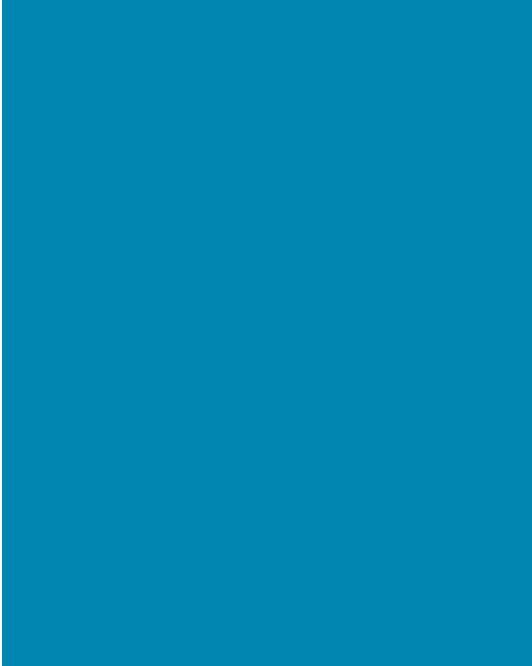
Accessory

Remote control (JT8), enables the control (ON/OFF) and the status display (On, Standby, Temporary Off)

Certifications & Warranty

100% manufactured and tested in Switzerland (Europe). ISO certified factory 9001:2008/14001:2004. All our products include a 10-year warranty (5+5).

* 120Vac/60Hz on request. Available for all Xtenders except XTH8000-48
** Standby with solar option -S
Data may change without any notice



Call our specialists **+41 27 205 60 80** or
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