

AJ Series

The AJ range consists of sine wave inverters that convert battery voltage into utility quality 230Vac* which can be used with all usual electrical appliances.

Its proven **reliability** and **outstanding performance** make it the **optimal solution** for many applications. Delivered with battery and AC cables it is a true **"plug and forget solution"**.



AJ 275-12
AJ 350-24
AJ 400-48



AJ 500-12
AJ 600-24
AJ 700-48



AJ 1000-12
AJ 1300-24



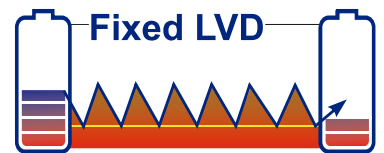
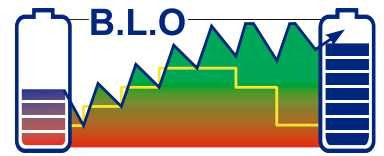
AJ 2100-12
AJ 2400-24

- **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
- Delivered with cable (Battery and output)

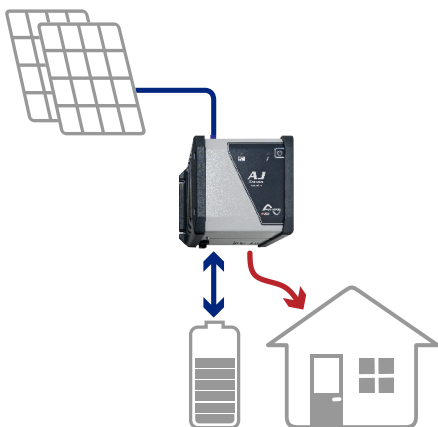
B.L.O

Battery Lifetime Optimizer

With the B.L.O function activated, the AJ inverters offer an advanced protection of the battery, by a smart management of low voltage disconnection (LVD).



Solar Home System with AJ



AJ with built in solar charge controller (-S)



AJ with external solar charge controller

Version with optional built-in solar charge controller

For a complete solar system! The **AJ** series can be supplied with an optional integrated PWM solar charge controller, making the inverter an **"all in one"** device for a **solar home system**.



AJ Series



Solar Home System

Rural electrification (Solar Home System)

AJ series inverters for rural electrification provide excellence that benefit the development of remote areas and populations. Choosing AC for rural electrification systems improves simplicity, reliability and cost savings. Indeed, compared with a DC system, one with an inverter that supplies loads in AC, is often more efficient for systems with 100W of solar power or more.

The AJ series is, due to its overload capability and to its very reliable stand-by system adjustable from 2W, the most suitable range of inverters to meet the technical and economic requirements of rural electrification projects.



Technical Specifications

Model	AJ 275-12	AJ 350-24	AJ 400-48	AJ 500-12	AJ 600-24	AJ 700-48	AJ 1000-12	AJ 1300-24	AJ 2100-12	AJ 2400-24	
Inverter											
Nominal battery voltage	12V	24V	48V	12V	24V	48V	12V	24V	12V	24V	
Input voltage range	10.5 – 16V	21 – 32V	42 – 64V	10.5 – 16V	21 – 32V	42 – 64V	10.5 – 16V	21 – 32V	10.5 – 16V	21 – 32V	
Continuous power @ 25°C	200VA	300VA	300VA	400VA	500VA	500VA	800VA	1000VA	2000VA	2000VA	
Power 30 min. @ 25°C	275VA	350VA	400VA	500VA	600VA	700VA	1000VA	1300VA	2100VA	2400VA	
Power 5 min. @ 25°C	350VA	500VA	600VA	575VA	675VA	900VA	1200VA	2000VA	2450VA	2800VA	
Power 5 sec. @ 25°C	450VA	650VA	1000VA	1000VA	1200VA	1400VA	2200VA	2800VA	5000VA	5200VA	
Asymmetric load	150VA	150VA	200VA	250VA	300VA	300VA	500VA	600VA	1000VA	1200VA	
Max. efficiency (%)	93%	94%	94%	93%	94%	94%	93%	94%	92%	94%	
Cos phi 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	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	2W (only with the solar option - S)					Adjustable: 1 to 20W					
Short-circuit current 2 sec. (exit)	2.3A (4.6A*)	3.2A (6.4A*)	4.6A (9.2A*)	5.2A (10.4A*)	5.7A (11.4A*)	7A (14A*)	10A (20A*)	13A (26A*)	26A (52A*)	30A (60A*)	
Output voltage	Sine wave 230Vac (120Vac*) ± 5%										
Frequency	50Hz (60Hz*) ± 0.05% (crystal controlled)										
Distortion THD (resistive load)	< 5% (@ Pnom.)										
Consumption Stand-by	0.3W**	0.5W**	1.1W**	0.4W	0.6W	1.5W	0.7W	1.2W	0.7W	1.2W	
Consumption "ON" no load	2.4W	3.5W	5.2W	4.6W	7.2W	12W	10W	13W	16W	16W	
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	60A	40A	25A	120A	90A	60A	125A	100A	Not protected	150A	
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			8.5 kg		19 kg	18 kg	
Dimensions	142mm x 163mm x 84mm			142mm x 240mm x 84mm			142mm x 428mm x 84mm		273mm x 399mm x 117mm		
Protection index IP	IP 30 conforms to DIN 40050						IP 30 conforms to DIN 40050		IP 20 conforms to DIN 40050		
Certification ECE-R 10 (E24)	•	•	Not available	•	•	Not available	•	•	•	•	
EC conformity	EN 61000-6-1, EN 61000-6-3, EN 55014, EN 55022, EN 60950-1										
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)										
Warranty	5 years										
Approximate correction of Pnom	-1.5%/°C since + 25°C										
Recommended battery capacity	> 5 x Pnom/Unom (recommended value in Ah)										
Length cables (Battery/AC out)	1.2m / 1m			1.5m / 1m				1.7m / 1m			
Options											
Solar regulator PWM	Voltage max.	25V	45V	90V	25V	45V	90V	25V	45V	25V	45V
	Current max.	10A			15A			25A		30A	
	Principle	Floating 3 stages (I/U/UO)									
	Absorption voltage	14.4V	28.8V	57.6V	14.4V	28.8V	57.6V	14.4V	28.8V	14.4V	28.8V
	Floating voltage	13.6V	27.2V	54.4V	13.6V	27.2V	54.4V	13.6V	27.2V	13.6V	27.2V
Plug for remote control (RCM)	•										
Remote control JT8 supplied with 5m cable	•							•	•	•	•

* 115Vac/60Hz on request ** Standby with solar option -S