

# AJ series



Model	AJ 275-12	AJ 350-24	AJ 400-48	AJ 500-12	AJ 600-24	AJ 700-48
<b>Inverter</b>						
Nominal battery voltage	12Vdc	24Vdc	48Vdc	12Vdc	24Vdc	48Vdc
Input voltage range	10.5 – 16Vdc	21 – 32Vdc	42 – 64Vdc	10.5 – 16Vdc	21 – 32Vdc	42 – 64Vdc
Continuous power @ 25°C	200VA	300VA	300VA	400VA	500VA	500VA
Power 30 min. @ 25°C	275VA	350VA	400VA	500VA	600VA	700VA
Power 5 min. @ 25°C	350VA	500VA	600VA	575VA	675VA	900VA
Power 5 sec. @ 25°C	450VA	650VA	1000VA	1000VA	1200VA	1400VA
Maximum asymmetric load	150VA	150VA	200VA	250VA	300VA	300VA
Max. efficiency (%)	93%	94%	94%	93%	94%	94%
Cos φ 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 400VA	0.1 – 1 up to 500VA	0.1 – 1 up to 500VA
Detection of the load	2W (only with the solar option -S)			Adjustable: 1 - 20W		
Current of short-circuit 2 sec. (exit)	2.3Aac (4.6Aac*)	3.2Aac (6.4Aac*)	4.6Aac (9.2Aac*)	5.2Aac(10.4Aac*)	5.7Aac (11.4Aac*)	7Aac (14Aac*)
Output voltage	Sine wave 230Vac (120Vac*) ±5%					
Frequency	50Hz (60Hz*) ± 0.05% (crystal controlled)					
Distortion THD (resistive load)	< 3% (@ Pnom.)					
Consumption Stand-by	0.3W**	0.5W**	1.1W**	0.4W	0.6W	1.5W
Consumption «ON» no load	2.4W	3.5W	5.2W	4.6W	7.2W	12W
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 by internal fuse	60A	40A	25A	120A	90A	60A
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					
<b>General data</b>						
Weight	2.4 kg	2.6 kg		4.5 kg		
Dimensions hxxw [mm]	142x163x84			142x240x84		
Protection index IP	IP 30 conforms to DIN 40050					
Certification ECE-R 10 (E24)	•	•	Not available	•	•	Not available
EC conformity	Low Voltage Directive (LVD) 2014/35/EU: - EN 62109-1:2010 Electromagnetic Compliance (EMC) Directive 2014/30/EU: - EN 61000-6-2:2005, EN 61000-6-4:2007 / A1:2011					
Operating temperature	-20°C up 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/left AC)	1.2m / 1m		1.5m / 1m			
<b>Options</b>						
	<b>AJ 275-12-S</b>	<b>AJ 350-24-S</b>	<b>AJ 400-48-S</b>	<b>AJ 500-12-S</b>	<b>AJ 600-24-S</b>	<b>AJ 700-48-S</b>
Solar regulator	Voltage max.	25Vdc	45Vdc	90Vdc	25Vdc	45Vdc
	Current max.	10Adc		15Adc		
	Principle	Floating 3 stages (I/U/UO)				
	Absorption voltage	14.4Vdc	28.8Vdc	57.6Vdc	14.4Vdc	28.8Vdc
	Floating voltage	13.6Vdc	27.2Vdc	54.4Vdc	13.6Vdc	27.2Vdc
Plug for remote control (RCM)	•	•	•	•	•	•

\* 120Vac/60Hz on request  
\*\* Standby with solar option -S

Data may change without any notice.



Model	AJ 1000-12	AJ 1300-24	AJ 2100-12	AJ 2400-24
<b>Inverter</b>				
Nominal battery voltage	12Vdc	24Vdc	12Vdc	24Vdc
Input voltage range	10.5 – 16Vdc	21–32Vdc	10.5 – 16Vdc	21–32Vdc
Continuous power @ 25°C	800VA	1000VA	2000VA	2000VA
Power 30 min. @ 25°C	1000VA	1300VA	2100VA	2400VA
Power 5 min. @ 25°C	1200VA	2000VA	2450VA	2800VA
Power 5 sec. @ 25°C	2200VA	2800VA	5000VA	5200VA
Maximum asymmetric load	500VA	600VA	1000VA	1200VA
Max. efficiency (%)	93%	94%	92% @ 300VA	94% @ 300VA
Cos φ max.	0.1 – 1 up to 800VA	0.1 – 1 up to 1000VA	0.1 – 1 up to 2000VA	0.1 – 1 up to 2000VA
Detection of the load	Adjustable: 1 - 20W			
Current of short-circuit 2 sec. (exit)	10Aac (20Aac*)	13Aac (26Aac*)	26Aac (52Aac*)	30Aac (60Aac*)
Output voltage	Sine wave 230Vac (120Vac*) ±5%			
Frequency	50 Hz (60Hz*) ± 0.05% (crystal controlled)			
Distortion THD (resistive load)	< 3% (@ Pnom & Uin nom.)			
Consumption Stand-by	0.7W	1.2W	0.7W	1.2W
Consumption «ON» no load	10W	13W	16W	16W
Overheat protection (±5°C)	Shut down @ 75°C - Auto-restart @ 70°C			
Short circuit protection	Automatic disconnection with 2 time restart attempt			
Reverse polarity protection by internal fuse	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			
<b>General data</b>				
Weight	8.5 kg		19 kg	18 kg
Dimensions hxxw [mm]	142x428x84		273x399x117	
Protection index IP	IP 30 conforms to DIN 40050		IP 20 conforms to DIN 40050	
Certification ECE-R 10 (E24)	•	•	•	•
EC conformity	Low Voltage Directive (LVD) 2014/35/EU: - EN 62109-1:2010 Electromagnetic Compliance (EMC) Directive 2014/30/EU: - EN 61000-6-2:2005, EN 61000-6-4:2007 / A1:2011			
Operating temperature	-20°C up 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/left AC)	1.5m / 1m		1.7m / 1m	
<b>Options</b>				
	<b>AJ 1000-12-S</b>	<b>AJ 1300-24-S</b>	<b>AJ 2100-12-S</b>	<b>AJ 2400-24-S</b>
Solar regulator	Voltage max.	25Vdc	45Vdc	25Vdc
	Current max.	25Adc		30Adc
	Principle	Floating 3 stages (I/U/UO)		
	Absorption voltage	14.4Vdc	28.8Vdc	14.4Vdc
	Floating voltage	13.6Vdc	27.2Vdc	13.6Vdc
Remote control JT8 supplied with 5 m cable	•	•	•	•