

AJ 500-700VA



Model	AJ 500-12	AJ 600-24	AJ 700-48	
Inverter				
Nominal battery voltage	12 Vdc	24 Vdc	48 Vdc	
Input voltage range	10.5 – 16 Vdc	21 –32 Vdc	42 –64 Vdc	
Continuous power @ 25°C	400 VA	500 VA	500 VA	
Power 30 min. @ 25°C	500 VA	600 VA	700 VA	
Power 5 min. @ 25°C	575 VA	675 VA	900 VA	
Power 5 sec. @ 25°C	1000 VA	1200 VA	1400 VA	
Asymmetric load	250 VA	300 VA	300V A	
Max. efficiency (%)	93 %	94 %	94 %	
Cos φ max.	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	Adjustable: 1 to 20 W			
Short-circuit current AC 2 sec.	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.)			
Consumption Stand-by	0.4 W	0.6 W	1.5 W	
Consumption «ON» no load	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	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	4.5 kg			
Dimensions h/w/l [mm]	142 / 240 / 84			
Protection index IP	IP 30 conforms to DIN 40050			
Certification ECE-R 10 (E24)	•	•	Not available	
EU declaration of 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 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			
ISO Certification	9001:2008 / 14001:2004			
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)	1.5 m / 1 m			
Options				
Solar regulator	Voltage max.	AJ 500-12-S: 25 Vdc	AJ 600-24-S: 45 Vdc	AJ 700-48-S: 90 Vdc
	Current max.	15 Adc		
	Principle	Floating 3 stages (I/U/UO)		
	Absorption voltage	14.4 Vdc	28.8 Vdc	57.6 Vdc
	Floating voltage	13.6 Vdc	27.2 Vdc	54.4 Vdc
Plug for remote control (RCM)	•	•	•	

* 120Vac/60Hz on request

** Standby with solar option -S

Data may change without any notice

AJ series



Model	AJ 275-12	AJ 350-24	AJ 400-48	AJ 500-12	AJ 600-24	AJ 700-48	
Inverter							
Nominal battery voltage	12Vdc	24Vdc	48Vdc	12Vdc	24Vdc	48Vdc	
Input voltage range	10.5 – 16Vdc (24Vdc max.)	21 – 32Vdc (44Vdc max.)	42 – 64Vdc (64Vdc max.)	10.5 – 16Vdc (24Vdc max.)	21 – 32Vdc (44Vdc max.)	42 – 64Vdc (64Vdc max.)	
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)	< 5% (@ 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						
General data							
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	EN 61000-6-1, EN 61000-6-3, EN 55014, EN 55022, EN 60950-1						
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			
Options							
Solar regulator	Voltage max.	25Vdc	45Vdc	90Vdc	25Vdc	45Vdc	90Vdc
	Current max.	10Adc			15Adc		
	Principle	Floating 3 stages (I/U/UO)					
	Absorption voltage	14.4Vdc	28.8Vdc	57.6Vdc	14.4Vdc	28.8Vdc	57.6Vdc
	Floating voltage	13.6Vdc	27.2Vdc	54.4Vdc	13.6Vdc	27.2Vdc	54.4Vdc
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	
Inverter					
Nominal battery voltage	12Vdc	24Vdc	12Vdc	24Vdc	
Input voltage range	10.5 – 16Vdc (24Vdc max.)	21–32Vdc (44Vdc max.)	10.5 – 16Vdc (20Vdc max.)	21–32Vdc (40Vdc max.)	
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)	< 5% (@ 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				
General data					
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	EN 61000-6-1, EN 61000-6-3, EN 55014, EN 55022, EN 60950-1				
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		
Options					
Solar regulator	Voltage max.	25Vdc	45Vdc	25Vdc	45Vdc
	Current max.	25Adc		30Adc	
	Principle	Floating 3 stages (I/U/UO)			
	Absorption voltage	14.4Vdc	28.8Vdc	14.4Vdc	28.8Vdc
	Floating voltage	13.6Vdc	27.2Vdc	13.6Vdc	27.2Vdc
Remote control JT8 supplied with 5 m cable	•	•	•	•	