

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 hxxxl [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		AJ 275-12-S	AJ 350-24-S	AJ 400-48-S	AJ 500-12-S	AJ 600-24-S	AJ 700-48-S
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



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 to1000VA		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.)						< 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							
General data									
Weight		8.5 kg				19 kg		18 kg	
Dimensions hxxwl [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		AJ 1000-12-S		AJ 1300-24-S		AJ 2100-12-S		AJ 2400-24-S	
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		•		•		•		•	