



# C P Power & Automation Ltd

## True Sinewave Inverters (with optional built-in solar charge controller)



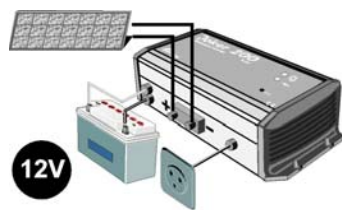
**AJ275-12, AJ350-24, AJ400-48**

### Technical data

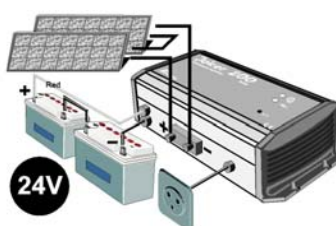
Model: AJ	275-12	350-24	400-48
Nominal input voltage	12V	24V	48V
Input voltage range	10.5 – 16V (24V max.)	21 – 32V (44V max.)	42 – 64V (64V max.)
Continuous power @ 25°C	200VA	300VA	300VA
<b>Power 30 min. @ 25°C</b>	<b>275VA</b>	<b>350VA</b>	<b>400VA</b>
Power 5 min. @ 25°C	350VA	500VA	600VA
Power 5 sec. @ 25°C	450VA	650VA	1000VA
Max asymmetrical load	150VA	150VA	200VA
Short circuit current 2s (output)	2.3A (4.6A*)	3.2A (6.4A*)	4.6A (9.2A*)
Output voltage	True sine 230Vac (120Vac*) 0 / -10%		
Frequency	50Hz (60Hz*) ± 0.05% (Crystal control)		
Distortion THD (on resistive load)	< 5% (@ Pnom.)		
Consumption Stand-by **	0.3W	0.3W	0.4W
Consumption « ON » @ no load	1.9W	3.3W	5W
Maximum efficiency	93%	94%	94%
Max continuous Cos φ	0.1 – 1 up to 200 VA	0.1 – 1 up to 300 VA	0.1 – 1 up to 300 VA
Load detection (Stand-by)	2 W (only with solar option -S)		
Overheating protection (+/-5°C)	Shut down @ 75 °C – Auto-restart @ 70°C		
Overload protection	Automatic disconnection with 2 time restart attempt		
Short circuit protection	Automatic disconnection with 2 time restart attempt		
Reverse polarity protection	Protected by internal fuse		
Back-feeding protection	Not protected		
Battery deep discharge protection	Shut off @ 0.87 x Unom – Automatic restart @ Unom		
Over voltage shut down	Shut off @ >1.33 x Unom – Automatic restart @ < Umax		
Acoustic warning	Before low battery or overheating disconnection		
Cable length(Battery / AC out)	1.2m / 1m		
Noise	< 45 dB (fans)		
Operating temperature	-20°C up to +50°C		
Approx. output power derating	-1.5%/°C since +25°C		
IP protection index	IP 30 conforms to DIN 40050		
Forced ventilation	From 45°C ± 5°C		
Required battery capacity	> 5 x Pnom/Unom (recommended value in Ah)		
Weight	2.4 kg	2.6 kg	2.6 kg
Dimensions	142mm x 163mm x 84mm		
Warranty	2 years		
EC conformity compliance	EN 61000-6-1, EN 61000-6-3, EN 55014, EN 55022, EN 61000-3-2, Dir. 89/336/EEC, LVD 73/23/EEC, Dir. 95/54/EC		

\* 115Vac/60Hz available on simple request.

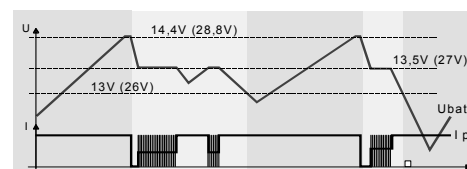
\*\* Stand-by with solar option -S



12V



24V



### Optional built-in solar charge controller : 10 A

Nom. voltage: 12V / 24V / 48V

Bulk voltage : 14.4V / 28.8V / 57.6V

Float voltage : 13.5V / 27V / 54V

Every effort has been made to ensure the accuracy of the information in this document. However, the CPPA policy is one of continuous improvement and for the latest information Rights please contact us. E&OE