



Sine wave inverters (with optional built-in solar charge controller)

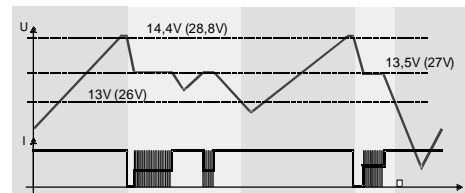
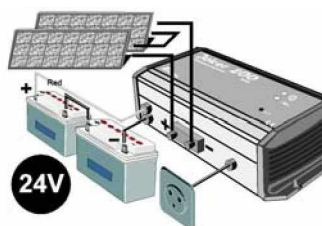
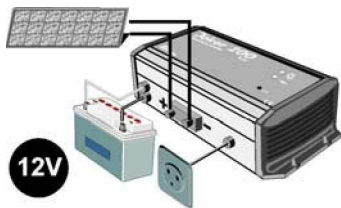
AJ 500-12
AJ 600-24
AJ 700-48



Technical data

Model: AJ	500-12	600-24	700-48
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	400VA	500VA	500VA
Power 30 min. @ 25°C	500VA	600VA	700VA
Power 5 min. @ 25°C	575VA	675VA	900VA
Power 5 sec. @ 25°C	1000VA	1200VA	1400VA
Max asymmetrical load	250VA	300VA	300VA
Short circuit current 2s (output)	5.2A (10.4A*)	5.7A (11.4A*)	7A (14A*)
Output voltage	True sine 230Vac (120Vac*) 0 / -10%		
Frequency	50Hz (60Hz*) ± 0.05% (Crystal control)		
Distortion THD (on resistive load)	< 5% (@ Pnom)		
Consumption in « Stand-by » mode	0.3W	0.4W	1W
Consumption « ON » @ no load	3.8W	8.5W	10W
Maximum efficiency	93%	94%	94%
Max continuous Cos	0.1 – 1 up to 400VA	0.1 – 1 up to 500VA	0.1 – 1 up to 500VA
Load detection	Adjustable: 1 → 20W		
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 feed 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)	1.5m / 1m		
Noise	> 45 dB (Ventilation)		
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 & dimensions	4.5 kg – 142mm x 240mm x 84mm		
Warranty	2 years		
EC conformity compliance	EN 50081 I/II, EN 50082 I/II, EN 550014 B - 50022, EN 50091-2, EN 60950 IEC 801 II/III/IV, CEI 555, LVD 73/23 EEC, EMC Dir.89/336/EEC, Dir. 95/54/EC		

* 120Vac/60Hz available on simple request.



Optional built-in solar charge controller : 15A

Nom. Voltage: 12V / 24V / 48V
Bulk voltage : 14.4V / 28.8V / 57.6V
Float voltage : 13.5V / 27V / 54V

www.barden-uk.com