



Sine wave inverters

(with optional built-in solar charge controller and remote control)



AJ 2100-12
AJ 2400-24

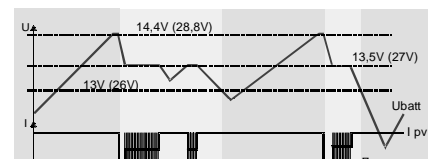
Technical data

Model: AJ	2100-12	2400-24
Nominal input voltage	12V	24V
Input voltage range	10.5 – 16V (20V absolute max.)	21–32V (40V absolute max.)
Continuous power @ 25°C	2000VA	2000VA
Power 30 min. @ 25°C	2100VA	2400VA
Power 5 min. @ 25°C	2450VA	2800VA
Power 5 sec. @ 25°C	5000VA	5200VA
Max asymmetrical load	1000VA	1200VA
Short circuit current 2s (output)	26A (52A*)	30A (60A*)
Output voltage	True sine 230Vac (120Vac*) 0 / -10%	
Frequency	50Hz (60Hz*) ± 0.05% (Crystal control)	
Distortion THD (on resistive load)	< 5% (@ Pnom. & Uin nom.)	< 3% (@ Pnom & Uin nom.)
Max. output over voltage	Max 10ms 1.3x Unom.	Max 10ms 1.2x Unom
Consumption in « Stand-by » mode	0.5W	0.4W
Consumption « ON » @ no load	13W	18W
Maximum efficiency	92% @ 300VA	94% @ 300VA
Max continuous Cos	0.1 – 1 up to 2000VA	0.1 – 1 up to 2000VA
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	Not protected	Protected by internal 150A 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)	1.7m / 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 20 conforms to DIN 40050	
Forced ventilation	From 45°C ± 5°C	
Required battery capacity	> 5 x Pnom/Unom (recommended value in Ah)	
Weight	19 kg	18 kg
Dimensions	273mm x 399mm x 117mm	
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 : 30A

Nom. voltage: 12V / 24V
Bulk voltage : 14.4V / 28.8V
Float voltage : 13.5V / 27V



JT8!!Optional remote control + 10m cable
ON /OFF push button
Acoustic warning
Status display

www.barden-uk.com