



C P Power & Automation Ltd

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

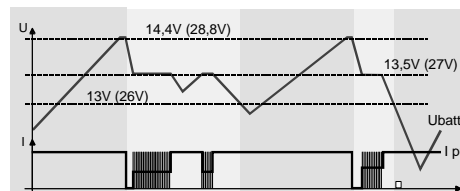
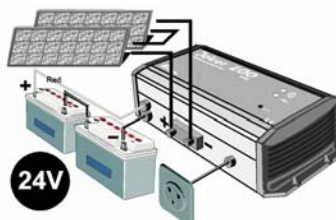
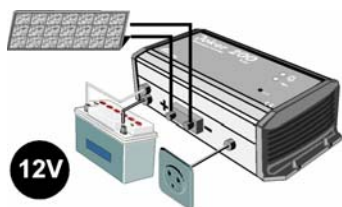


AJ 500-12, AJ 600-24, AJ 700-48

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 φ | 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 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.



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

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