

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 | 21 – 32Vdc | 42 – 64Vdc | 10.5 – 16Vdc | 21 – 32Vdc | 42 – 64Vdc | |
| 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) | < 3% (@ 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 hxxw [mm] | 142x163x84 | | | 142x240x84 | | | |
| Protection index IP | IP 30 conforms to DIN 40050 | | | | | | |
| Certification ECE-R 10 (E24) | • | • | Not available | • | • | Not available | |
| EC conformity | Low Voltage Directive (LVD) 2014/35/EU: - EN 62109-1:2010 Electromagnetic Compliance (EMC) Directive 2014/30/EU: - EN 61000-6-2:2005, EN 61000-6-4:2007 / A1:2011 | | | | | | |
| 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 | |
| | Current max. | 10Aac | | | 15Aac | | |
| | 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 | 21–32Vdc | 10.5 – 16Vdc | 21–32Vdc | |
| 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 to 1000VA | 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) | < 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 hxxw [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 | Low Voltage Directive (LVD) 2014/35/EU: - EN 62109-1:2010 Electromagnetic Compliance (EMC) Directive 2014/30/EU: - EN 61000-6-2:2005, EN 61000-6-4:2007 / A1:2011 | | | | |
| 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 | |
| | Current max. | 25Aac | | 30Aac | |
| | 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 | • | • | • | • | |