

STUDER

"AJ" Series

Pure Sine Wave Inverters


AA Solar & SunPowerPlus

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| |  | |  | |  | |  | |
| Model | AJ275-12 AJ350-24 | | AJ500-12 AJ600-24 | | AJ1000-12 AJ1300-24 | | AJ2100-12 AJ2400-24 | |
| Inverter | | | | | | | | |
| Nominal battery voltage | 12V | 24V | 12V | 24V | 12V | 24V | 12V | 24V |
| Input voltage range | 10.5-16V (24V max) | 21-32V (44V max) | 10.5-16V (24V max) | 21-32V (44V max) | 10.5-16V (24V max) | 21-32V (44V max) | 10.5-16V (24V max) | 21-32V (44V max) |
| Continuous power @ 25°C | 200VA | 300VA | 400VA | 500VA | 800VA | 1000VA | 2000VA | 2000VA |
| Power 30 min @ 25°C | 275VA | 350VA | 500VA | 600VA | 1000VA | 1300VA | 2100VA | 2400VA |
| Power 5 min @ 25°C | 350VA | 500VA | 575VA | 675VA | 1200VA | 2000VA | 2450VA | 2800VA |
| Power 5 sec @ 25°C | 450VA | 650VA | 1000VA | 1200VA | 2200VA | 2800VA | 5000VA | 5200VA |
| Maximum asymmetric load | 150VA | 150VA | 250VA | 300VA | 500VA | 600VA | 1000VA | 1200VA |
| Maximum efficiency | 93% | 94% | 93% | 94% | 93% | 94% | 92% @ 300VA | 94% @ 300VA |
| Detection of the load | Adjustable: 1 →20W | | | | | | | |
| Current of short circuit 2 sec (exit) | 2.3A | 3.2A | 5.2A | 5.7A | 10A | 13A | 26A | 30A |
| Output voltage | Sinewave 230VAC ±10% | | | | | | | |
| Frequency | 50Hz ± 0.05% (crystal controlled) | | | | | | | |
| Distortion THD (resistive load) | < 5% (@ Pnom) | | | | | | | < 3% (@ Pnom & Vin nom) |
| Consumption Stand-by | | | 0.4W | 0.6W | 0.7W | 1.2W | 0.7W | 1.2W |
| Consumption <ON> no load | 2.4W | 3.5W | 4.6W | 7.2W | 10W | 13W | 16W | 16W |
| Overheat protection | Shut down @ 75°C - Auto restart @ 70°C | | | | | | | |

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| (±5°C) | | | | | | |
| Overload and short circuit protection | Automatic disconnection with 2 time restart attempt | | | | | |
| Reverse polarity protection | Protected by internal fuse | Protected by internal fuse 125A | Protected by internal fuse 100A | Not protected | Protected by internal fuse 150A | |
| Deep discharge battery protection | Shut off @ 0.87 x Vnom - Automatic restart @ Vnom | | | | | |
| Maximum battery voltage | Shut off @ >1.33 x Vnom - Automatic restart @ Vmax | | | | | |
| Acoustic alarm | Before low battery or overheating disconnection | | | | | |
| General data | | | | | | |
| Weight | 2.4kg | 2.6kg | 4.5kg | 8.5kg | 19kg | 18kg |
| Dimensions (L x W x H) | 142 x 163 x 84 mm | 142 x 240 x 84 mm | 142 x 428 x 84 mm | | 273 x 399 x 117 mm | |
| Operating temperature | -20°C up to +50°C | | | | | |
| Relative humidity in operation | 95% without condensation | | | | | |
| Ventilation forced | From 45°C ± 5°C | | | | | |
| Acoustic Level | < 48dB (with ventilation) | | | | | |
| Approximate correction of Pnom | -1.5%/°C since +25°C | | | | | |
| Recommended battery capacity | > 5x Pnom/Vnom (recommended value in Ah) | | | | | |
| Length cables (Battery / left AC) | 1.2m / 1m | 1.5m / 1m | | | 1.7m / 1m | |
| Options | | | | | | |
| Remote Control Ability | Optional | | | Yes | | |
| JT8 Remote Control | | | | | | |
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