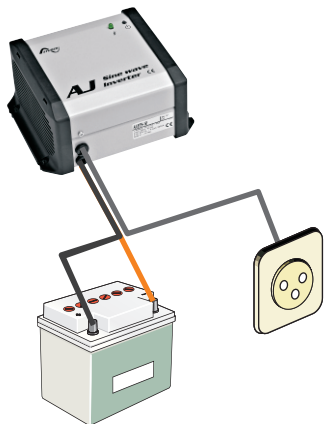


AJ series



The **AJ** series consist of pure sine wave inverters that convert a battery voltage to AC voltage for all AC appliances.

● **The AJ series offer:**

- a high and steady efficiency
- an outstanding overload capacity, thanks to the combined use of a toroidal transformer and a MOS power stage
- a digital regulation and microprocessor controlled
- an electrical supply to any kind of electrical appliance
- a complete internal protection of the inverter (overload, overheat, short-circuit, reverse polarity)
- an adjustable stand-by level on a large range and from a very low level (optional for AJ 275-350-400)

● **Further outfits & features:**

- battery and output cables mounted
- easy wall mounting by 4 external screws

● **Remote control**

An optional remote control can be supplied and connected to the AJ 1000-1300-2100 and 2400.

APPLICATIONS

● **Ground-based**

- rural electrification
- health & education
- holidays & leisures
- solar installations

● **Mobile**

- boats & yachts
- camping-cars
- emergency vehicles
- cars & trucks

● **Professional**

- secured power supply
- telecom & signalisation
- clean power source
- emergency lighting



Technical data

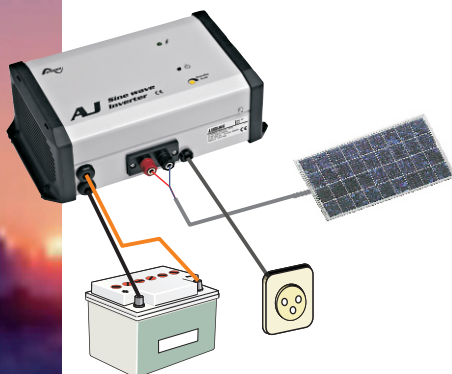
Model	AJ 275	AJ 350	AJ 400	AJ 500	AJ 600	AJ 700	AJ 1000	AJ 1300	AJ 2100	AJ 2400
Battery voltage (V)	12	24	48	12	24	48	12	24	12	24
Input voltage (V)	10.5-16	21-32	42-64	10.5-16	21-32	42-64	10.5-16	21-32	10.5-16	21-32
Pcont./P30 (VA)	200/275	300/350	300/400	400/500	500/600	500/700	800/1000	1000/1300	2000/2100	2000/2400
Stand-by/ON no load (W)	0.3*/1.9	0.3*/3.3	0.4*/5	0.3/3.8	0.4/8.5	1/10	0.3/9	0.4/10	0.5/13	0.4/18
Max. efficiency (%)	93	94	94	93	94	94	93	94	92	94
Dim. 142 x 84 x L (mm)	163			240			428		273 x 399 x 117	
Weight (kg)	2.4	2.6		4.5			8.5		19	18
Remote control ability	Option			Option			✓		✓	
Load detection Stand-by	With option S			✓			✓		✓	
Solar charger (option S)	10A			15A			25A		30A	
Protection index	IP 30			IP 30			IP 30		IP 20	

*With option S

Data may change without notice

Inverters 115 Vac-60 Hz on simple request

The **AJ** series comply with the **CE** norms and is (in 12 and 24V) **E24** certified



● **SOLAR SYSTEM OPTION**

A floating 3 STEP (I/U/Uo) solar charge controller can be supplied built-in with the **AJ**. Making the inverter an "all in one" tool for solar systems. With this solar option the AJ 275-350 and 400 have also a stand-by system.



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



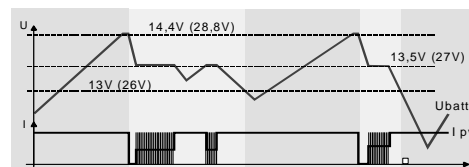
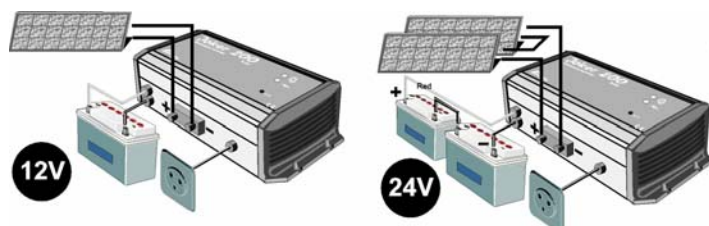
AJ 275-12
AJ 350-24
AJ 400-48

Technical data

Model: AJ	275-12	350-24	400-48
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	200VA	300VA	300VA
Power 30 min. @ 25°C	275VA	350VA	400VA
Power 5 min. @ 25°C	350VA	500VA	600VA
Power 5 sec. @ 25°C	450VA	650VA	1000VA
Max asymmetrical load	150VA	150VA	200VA
Short circuit current 2s (output)	2.3A (4.6A*)	3.2A (6.4A*)	4.6A (9.2A*)
Output voltage	True sine 230Vac (115Vac*) 0 / -10%		
Frequency	50Hz (60Hz*) ± 0.05% (Crystal control)		
Distortion THD (on resistive load)	< 5% (@ Pnom.)		
Consumption Stand-by **	0.3W	0.3W	0.4W
Consumption « ON » @ no load	1.9W	3.3W	5W
Maximum efficiency	93%	94%	94%
Max continuous Cos φ	0.1 – 1 up to 200 VA	0.1 – 1 up to 300 VA	0.1 – 1 up to 300 VA
Load detection (Stand-by)	2 W (only with solar option -S)		
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-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)	1.2m / 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 30 conforms to DIN 40050		
Forced ventilation	From 45°C ± 5°C		
Required battery capacity	> 5 x Pnom/Unom (recommended value in Ah)		
Weight	2.4 kg	2.6 kg	2.6 kg
Dimensions	142mm x 163mm x 84mm		
Warranty	2 years		
E norm	ECE-R 10 (E24) certification for 12 and 24V models		
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		

* 115Vac/60Hz available on simple request.

** Stand-by with solar option -S



Optional built-in solar charge controller : 10 A

Nom. voltage: 12V / 24V / 48V

Bulk voltage : 14.4V / 28.8V / 57.6V

Float voltage : 13.5V / 27V / 54V



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

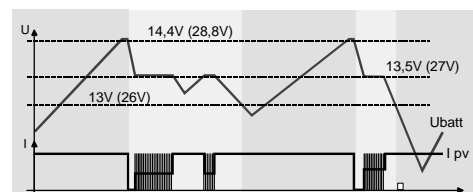
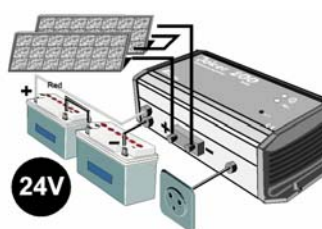
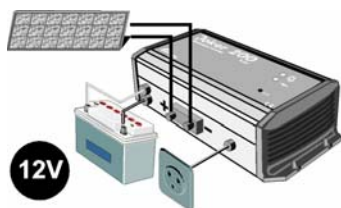


AJ 500-12
AJ 600-24
AJ 700-48

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 (115Vac*) 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		
E norm	ECE-R 10 (E24) certification for 12 and 24V models		
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		

* 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