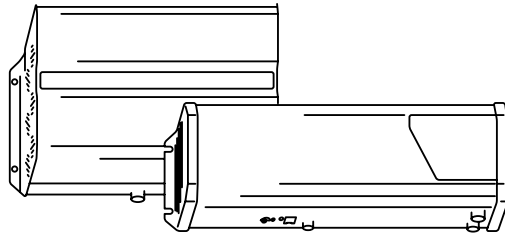


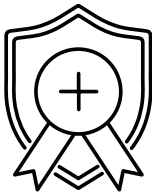


quick guide aj 1000 - 2400



swiss made power





See more about our warranty conditions
on our website [studer-innotec.com/studer-care](https://www.studer-innotec.com/studer-care)

designed and manufactured
by studer in Switzerland



Introduction

EN Congratulations!

You are about to install and use a high-end equipment that will play a central role in the energy management of your battery-based system. The aj is a smart battery inverter with advanced functions. This device has been designed, manufactured, assembled and tested in our factory in Switzerland.

FR Félicitations !

Vous vous préparez à installer et à utiliser un appareil haute-gamme qui jouera un rôle central dans la gestion d'énergie de votre système avec stockage. L'aj est un onduleur de batterie intelligent doté de fonctions avancées. Cet appareil a été conçu, fabriqué, assemblé et testé dans notre usine en Suisse.

DE Herzlichen Glückwunsch!

Wir freuen uns, dass Sie sich für eines High-Tech-Gerät entschieden haben, welches bei der Energie-management Ihrer Anlage entscheidende Rolle spielen wird. Der aj ist ein intelligenter Wechselrichter mit erweiterten Funktionen. Dieser Gerät wurde in unserem Werk in der Schweiz entwickelt, hergestellt, montiert und getestet.

ES ¡Enhorabuena!

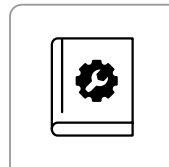
Está a punto de instalar y de utilizar un equipo de alta gama que desempeñará una función esencial en la gestión de energía de su sistema con almacenamiento. El aj es un inversor inteligente con funciones avanzadas. Este equipo ha sido diseñado, fabricado, ensamblado y probado en nuestra fábrica en Suiza.

General Information

EN Exclusion of liability

Studer disclaims all responsibility and liability for damage, costs or losses resulting from an installation that does not comply with the instructions, a faulty operation or inadequate maintenance. The use of studer equipment is in any case under the responsibility of the customer.

Read carefully the safety and operation instructions / Installation must be entrusted to qualified personnel / Check the user manual online / Need help?



FR Exclusion de la responsabilité

Studer décline toute responsabilité pour les dommages, les coûts ou les pertes résultant d'une installation non conforme aux prescriptions, d'un fonctionnement défectueux, ou d'un entretien déficient. L'utilisation des appareils studer relève dans tous les cas de la responsabilité du client.

Lisez attentivement les instructions de sécurité et d'utilisation / L'installation doit être confiée à du personnel qualifié / Consultez le manuel d'utilisation en ligne / Besoin d'aide ?



DE Haftungsausschluss

Studer übernimmt keinerlei Verantwortung und Haftung für Schäden, Kosten oder Verluste, die sich aus unsachgemäßer Installation, unsachgemäßem Betrieb sowie fehlerhafter Wartung ergeben oder in irgendeiner Art und Weise damit zusammenhängen. Der Einsatz und Betrieb der studer-Geräte obliegt in jedem Fall der Verantwortung des Kunden.

Lesen Sie die Sicherheits- und Betriebsanweisungen sorgfältig durch / Die Installation muss qualifiziertem Personal anvertraut werden / Überprüfen Sie die Bedienungsanleitung online / Brauchen Sie Hilfe?



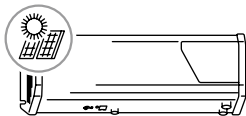
ES Exclusión de responsabilidad

Studer declina cualquier responsabilidad por los daños, costes o pérdidas resultantes de una instalación no conforme con las recomendaciones, de un funcionamiento defectuoso o de un mantenimiento deficiente. El uso de equipos de studer es en cualquier caso responsabilidad del cliente.

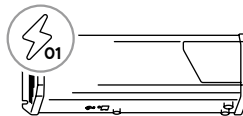
Lea atentamente las instrucciones de seguridad y funcionamiento / La instalación debe confiarse a personal cualificado / Consulte el manual de usuario en línea / ¿Necesitas ayuda?



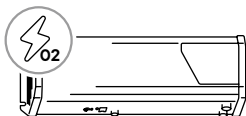
Options:



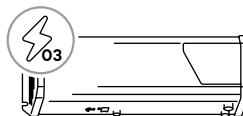
version s
integrated solar charger



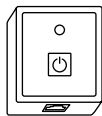
version 01
AC out 120Vac & 60Hz



version 02
AC out 120Vac & 50Hz



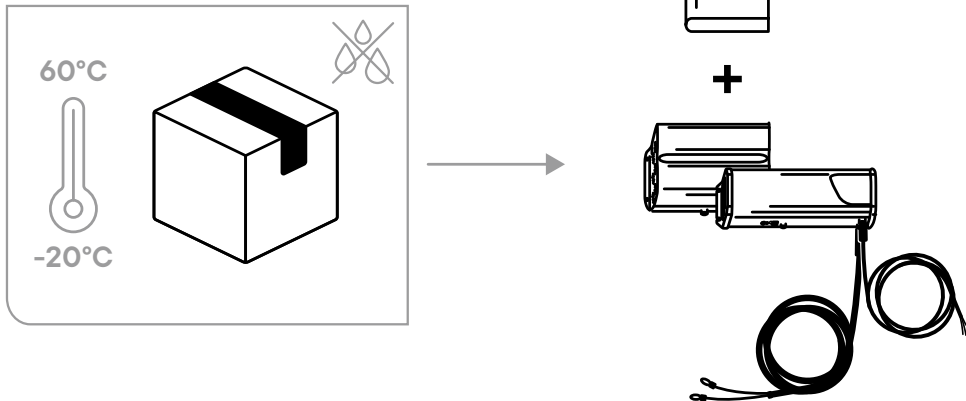
version 03
AC out 220Vac & 60Hz



jt8
remote control

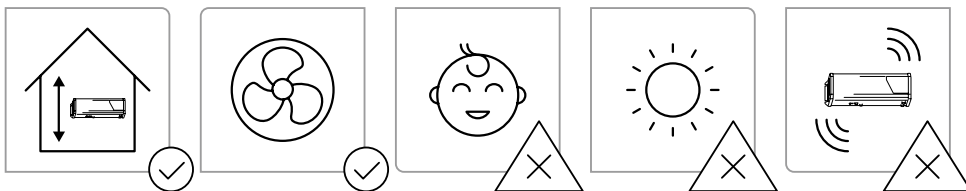
Mounting and installation

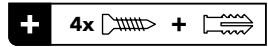
Storage and content



Mounting place

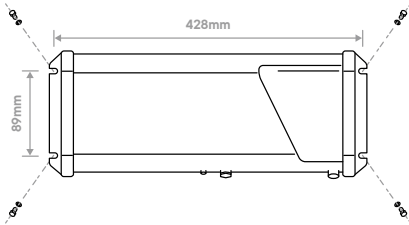
The batteries should only be installed by qualified personnel.



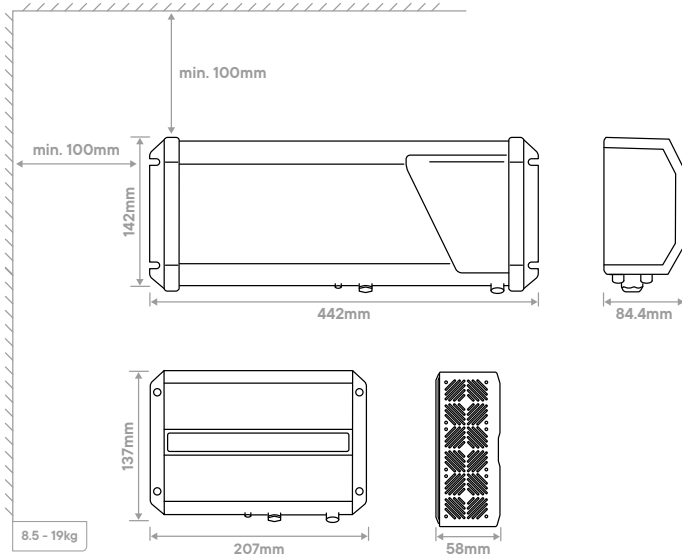
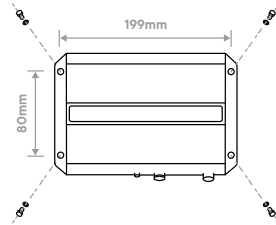


Fixing and dimensions

1a

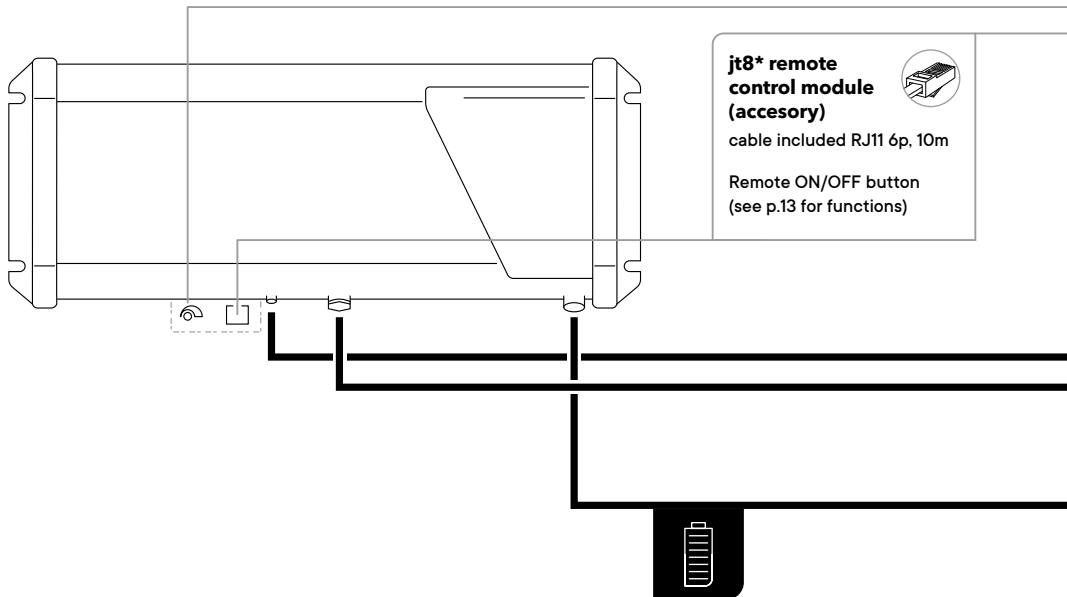


1b



2

Wiring



jt8* remote control module (accessory)



cable included RJ11 6p, 10m

Remote ON/OFF button (see p.13 for functions)

Battery


cable included (aj 1000-1300 : 2x16mm²/2m) / (aj 2100-2400: 2x25mm²/2.3m)

• black: negative pole (-)

• red: positive pole (+)



M8

Protection device (battery fuse included) 

• aj 1000-12: 125A / aj 1300-24: 100A

• aj 2100-12: **No fuse**** / aj 2400-24: 150A

* on request

** external fuse required (200A)

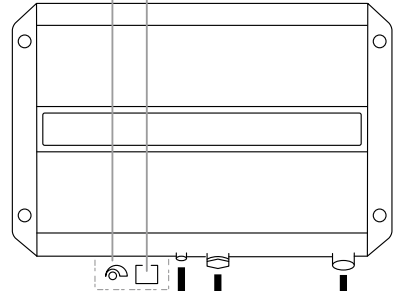
Standby
2W (1-20W)

AC output



cable included (3x1.5mm² / 1m)


- yellow-green: ground / brown: phase / blue: neutral



solar* PV (s models)

cable included only in aj 2100-12, aj 2400-24 (2x6mm²)

- black: negative pole (-) / red: positive pole (+)

Protection device (solar fuse included) 

- aj 1000-12, aj 1300-24: 25A
- aj 2100-12, aj 2400-24: 30A



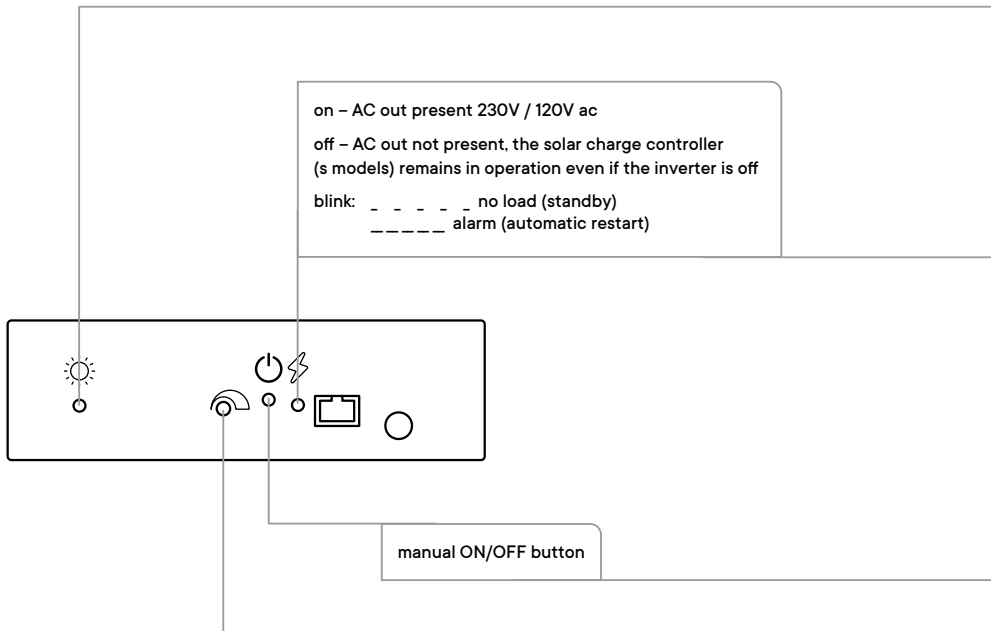
EN The device must be installed in accordance with local standards and regulations in force.

FR L'appareil doit être installé conformément aux normes et réglementations locales en vigueur.

DE Das Gerät muss gemäß den geltenden örtlichen Normen und Vorschriften installiert werden.

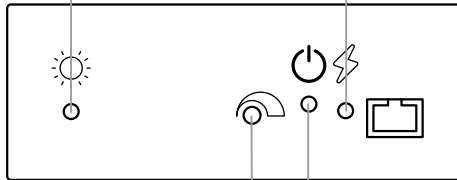
ES El dispositivo debe instalarse de acuerdo con las normas y regulaciones locales vigentes.

Display



solar* PV (s models)

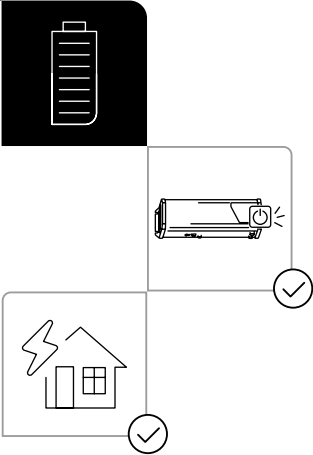
on – charge
off – night
blink – floating



Standby
2W (1-20W)

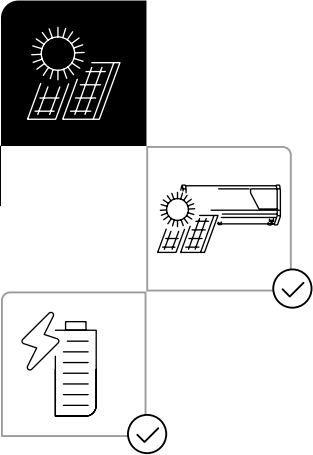
Power up

1

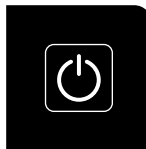


*solar PV

2



Activation/deactivation of functions



Time (s)	Description	Status default	
		ON	OFF
5"	acoustic alarms	1 BIP	
10"	BLO		2 BIP
15"	alarms voltage flickering		2 BIP
20"	read-only settings	1 BIP long = end	

Acoustic indicator

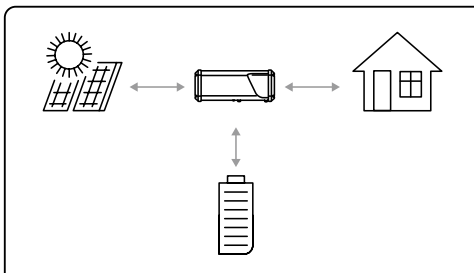
Intermittent beeps: Failure! Output voltage will be interrupted.

Overheat: Beeps 3°C before cutting the voltage.

Low battery voltage: Beeps during 1' before the interruption.

Continuous beep for 2": Pushed ON switch to restart the inverter.

Technical data



IP 30
Protection Class I



	aj 1000-12	aj 1300-24	aj 2100-12	aj 2400-24
Batt nominal voltage	12Vdc	24Vdc	12Vdc	24Vdc
Batt min-max voltage	10.5-16Vdc	21-32Vdc	10.5-16Vdc	21-32Vdc
Continuous power	800VA	1000VA	2000VA	2000VA
Power 30min	1000VA	1300VA	2100VA	2400VA
Power 5sec	2200VA	2800VA	5000VA	5200VA
AC output voltage	230V / 120V*			
AC output frequency	50Hz / 60Hz*			
AC output max current	10A (20A*)	13A (26A*)	26A (52A*)	30A (60A*)
Voltage PV max (Voc)	25Vdc	45Vdc	25Vdc	45Vdc
Current PV max (Isc)	25Adc		30Adc	

*(-01) 120Vac/50Hz
(-02) 120Vac/60Hz
(-03) 220Vac/60Hz

RoHS
COMPLIANT **Pb**
Pb-Free



Maintenance and recycling

EN Maintenance and recycling

Except for the periodic check of the connections (tightening, general condition), the aj does not require any particular maintenance. To dispose of this product, please use the service for the collection of electrical waste and observe all obligations in force in the place of purchase.

FR Entretien et recyclage

À l'exception du contrôle périodique des branchements (serrage, état général), l'aj ne nécessite pas d'entretien particulier. Pour vous débarrasser de ce produit, veuillez utiliser les services de collecte des déchets électriques et observer toutes les obligations en vigueur selon le lieu d'achat.

DE Wartung und Recycling

Abgesehen von der regelmäßigen Kontrolle der Anschlüsse (Fixierung, allgemeiner Zustand) bedarf der aj keinerlei besonderer Wartungsarbeiten. Beachten Sie bei der Entsorgung dieses Gerätes die geltenden örtlichen Vorschriften und nutzen Sie die Sammeldienste/-stellen für Elektro-/Elektronik-Altgeräte.

ES Mantenimiento y reciclaje

A excepción del control periódico de las conexiones (apriete, estado general), el aj no requiere un mantenimiento particular. Para la eliminación del producto, acuda a los servicios de recogida de residuos eléctricos y cumpla todas las obligaciones vigentes en el lugar de compra.

Serial Number:

Installed by:

Date:

Signature:

Call our specialists **+41 27 205 60 80**
or visit **studer-innotec.com/support**

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1950 Sion, Switzerland

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