



SONEAS

CHARGER AND MONITORING UNIT - EN 54-4



MAIN CHARACTERISTICS

Soneas 6/40

- 2U-rackmount charger
- 3 Auxiliary outputs, max. 5 Amp combined load
- 2 Main outputs, max. 40 Amp combined load
- Battery capacity: 85 AH to 225 AH

Soneas 12/150

- 2U-rack-frame charger
- 3 Auxiliary outputs, max. 5 Amp combined load
- 6 Main outputs, max. 20A mp/ch
- Battery capacity: 85 AH to 225 AH

CERTIFICATIONS AND APPROVALS

REGION	CERTIFICATIONS	
Europe	CE	CE – 0333 (AFNOR)
	Immunity	according to EN50103-4
	PAVA	EN54-4 certified 2010

PARTS INCLUDED

Quantities	Components
1	SONEAS 6/40A or SONEAS 12/150A
1	Power cord
1	Set of connectors

Ordering Information

SONEAS 6/40

SONEAS 12/150



The SONEAS series of battery chargers (24 Vdc) are intended for a Voice Alarm System. The battery chargers are microprocessor based devices that have been designed to charge lead-acid batteries (back-up batteries connected to the Voice Alarm System) and, simultaneously, to provide power to auxiliary devices such as the DIVA8 and IDA8 system controllers

The SONEAS battery chargers, which are fully compliant with EN54-4, offers a maximum charge current of 6 or 12 A. The battery charger is two rack units high, and has to be installed in a 19" rack. Maximum battery capacity: 225 AH.

OVERVIEW

To find the right power back-up system for your needs, you will need to determine the exact conditions under which you will be utilizing a back-up system. Determining the amount of battery back-up you need for a system is not as simple as some other applications. Public address systems do not draw a constant current. The standard defines a standby time and an evacuation time. In this case, it is important to pick a battery back-up that can supply the minimum amount of power needed for a set amount of time. ATEIS can provide you with a battery calculator program to determine the exact capacity.

REGULAR PROCEDURE AS FOLLOWS:

1. Determine the standby current of the system. This information is available in the voice alarm system manual.
2. Multiply the standby current by the standby time that the local standards call for. Typically this is 24 hours.
3. Compare this value to the 24 hour discharge capacity of the battery.
4. Determine the evacuation current of the system. This information is available in the voice alarm system manual.
5. Multiply the evacuation current by the time that the local standards call for. Typically this is one hour or 30 minutes.
6. Compare this value to the 30 minute or 60 minute hour discharge capacity of the battery.

SONAES

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TECHNICAL SPECIFICATIONS

Electrical

Mains power supply

Voltage	115 or 230 VAC ±15%, 50/60 Hz
Power consumption	380 W at Full load

Battery power supply

Voltage	24 VDC
Maximum charging current	

Soneas 6/40	6 Amp
Soneas 12/150	12 Amp

Outputs

Main for amplifiers

Soneas 6/40	2 x 20 A
Soneas 12/150	6 x 40 A

Auxiliary for controllers

Maximum current	5 Amp
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Batteries

Brands	4x 12 VDC, 85 to 225AH Yuasa NPL series Powersonic GB series ABT TM series Energys VE series Effekta BTL series Long GB series
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Mechanical

Dimensions (H x W x D)

19" rack use, with brackets	44 x 483 x 310 mm
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Weight

SONEAS 6/40	4.9 kg (10.8 lb)
SONEAS 12/150	6 kg (13 lb)

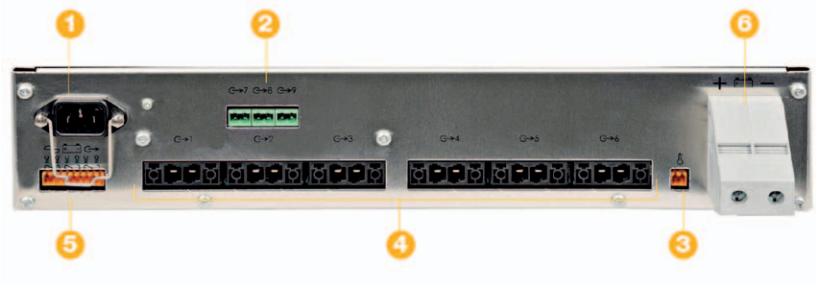
Mounting

Colour	19"-rackmount RAL7016
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Environmental

Operating temperature	-5 °C to +45 °C
Storage temperature	-25 °C to +85 °C
Relative humidity	20% to 95%
Air pressure	600 to 1100 h Pa

REAR LAYOUT OF SONAES 12/150



1. Main power socket
2. Auxiliary output terminals
3. Temperature sensor
4. Main output terminals
5. Output contacts
6. Battery terminal



0333-CPD-075382

Soneas 6/40



0333-CPD-075381

Soneas 12/150

INSTALLATION NOTES FOR SONAES 6/40

