



**Ex BATTERY BOX
SUITABLE FOR ZONE 1 INSTALLATION**



This battery system is composed by a battery box that includes some battery cells that are already assembled and connected. The whole complex, that includes the box, the cells and the interconnections, is manufactured in compliant with ATEX (European) Directive and is certified for use in classified area of Zone 1. Different types of batteries, from more manufacturers, which are selected among the most important and qualified of the market, can be used for the realization of this battery system.

SICE has performed a mainly selection and, usually, uses the following battery types:

VRLA BATTERIES MADE BY FIAMM:

- SMG
- SMG/S (Solar) for photovoltaic system

VRLA BATTERIES MADE BY SONNENSCHNEIN:

- A400
- A500
- A600
- A600 (Solar) for photovoltaic system

NiCd BATTERIES MADE BY SAFT:

- SBLE
- SUNICA+(Solar) for photovoltaic system
- Uptimax UP1L

Other types of batteries from same and other manufacturers, that are already approved and included in the ATEX certificate (for example ENERSYS and HOPPECKE), can be used for the construction of this battery system. SICE is open to evaluate all customer requirements.

MAIN TECHNICAL GENERAL DATA

Execution	:	ATEX II 2G Ex-e IIC T6 Gb IP56
Certificate	:	INERIS 12ATEX0061X
Box Manufacturer	:	EXCEN for SICE
Box Material	:	Iron sheet with anti-acid painting
Maximum capacity for each box	:	1960Ah (C5)
Box mechanical protection	:	IP23 (minimum)
Complex mechanical protection	:	IP56 (protection battery + battery box)
Standard temperature range	:	-20°C to +40°C

Main available options:

Box material	:	AISI 316L Stainless Steel not painted
Box mechanical protection	:	IP43
Connection mechanical protection	:	IP66 (Complex protection battery + battery box)
Terminal strip junction box material	:	AISI 316L Stainless Steel
Extreme temperature range	:	-60°C to +60°C (according to the cell manufacturer specifications)
Hinged cover	:	

SICE Pesaro (ITALY)

Document can be subjected to modifications, without prior notice