

# Sonnenschein Hybrid A112/2 S

## Technical data sheet

Batteries of the Sonnenschein Hybrid A100 range provide high capacities for many different applications. The success of A100 batteries comes from the Gel technology, available in a wide range of models to provide a solution for every power need.

Part Number: NGA1120002HS0SA

### Applications



Emergency &  
Security



Railway



Security



Telecom Good-  
grid



UPS -  
Datacenter



UPS - non  
Datacenter

**Attention: The batteries with a weight of  $\leq 5$  kg may only be used for industrial purposes. Use for non-industrial purposes is excluded.**

- Rechargeable VRLA batteries in Gel/AGM technology
- Nominal capacity: 1.2 -17 Ah C<sub>20</sub>
- Excellent energy storage capacity combined with
- Grid plate construction with high quality lead-calcium-tin alloy, specially designed for enhanced energy density
- Very low gas emission due to high gas recombination
- "10/12 years - Long Life" according to EUROBAT 2022 classification
- Low self-discharge rate (about 3% / month at 20°C)
- Container in Flame Retardant ABS-UL 94 HB material
- Superior cycling performance
- Designed in accordance with IEC 60896-21/22
- Trouble-free transport of operational blocks, no restrictions for rail, road, sea and air transportation (IATA, DGR, clause A67)



Design life  
10 years



Block battery



Grid plate



Recyclable



Valve regulated  
lead-acid  
batteries



Proof  
against deep  
discharge



Maintenance  
free (no  
topping up)

### Recycle with Exide.

Exide Technologies takes pride in its commitment to a better environment. An integrated approach to manufacturing, distributing and recycling of lead-acid batteries has been developed to ensure a safe and responsible life cycle for all of its products.



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#### Technical characteristics and data

|                     |                         |                          |                  |
|---------------------|-------------------------|--------------------------|------------------|
| Nominal voltage     | 12 V                    | Terminal                 | S-4.8            |
| Float charge        | 2,27 V/C at 20 °C       | Container                | ABS              |
| Capacity            | CC 20h 1,75V/C 20°C 2Ah | Temperature range        | -15°C to 50°C    |
| Internal resistance | 60 mΩ (IEC60896-21/22)  | Dimensions (l x b/w x h) | 178 x 36 x 66 mm |
|                     |                         | Weight                   | 0,9 kg           |
|                     |                         | Origin                   | Vietnam          |

#### Constant current discharge

| A at 20 °C | 5 min | 15 min | 30 min | 1 h  | 3 h   | 5 h   | 10 h  | 20 h  |
|------------|-------|--------|--------|------|-------|-------|-------|-------|
| 1,850 V/C  | 4,86  | 2,83   | 1,75   | 1,12 | 0,491 | 0,331 | 0,182 | 0,098 |
| 1,800 V/C  | 5,29  | 2,94   | 1,79   | 1,14 | 0,497 | 0,337 | 0,184 | 0,099 |
| 1,750 V/C  | 5,69  | 3,06   | 1,84   | 1,16 | 0,506 | 0,34  | 0,187 | 0,1   |
| 1,700 V/C  | 6,11  | 3,17   | 1,88   | 1,18 | 0,511 | 0,346 | 0,189 | 0,101 |
| 1,670 V/C  | 6,37  | 3,23   | 1,91   | 1,19 | 0,517 | 0,349 | 0,19  | 0,102 |
| 1,600 V/C  | 6,94  | 3,37   | 1,96   | 1,22 | 0,526 | 0,354 | 0,193 | 0,103 |

#### Constant power discharge

| W/block at 20 °C | 5 min | 15 min | 30 min | 1 h  | 3 h  | 5 h  | 10 h | 20 h |
|------------------|-------|--------|--------|------|------|------|------|------|
| 1,850 V/C        | 55,4  | 32,8   | 20,2   | 13   | 5,78 | 3,92 | 2,18 | 1,18 |
| 1,800 V/C        | 59,6  | 33,8   | 20,8   | 13,3 | 5,86 | 3,98 | 2,2  | 1,19 |
| 1,750 V/C        | 64,2  | 34,8   | 21,1   | 13,4 | 5,93 | 4,03 | 2,21 | 1,2  |
| 1,700 V/C        | 68,4  | 35,8   | 21,4   | 13,6 | 5,99 | 4,06 | 2,24 | 1,21 |
| 1,670 V/C        | 70,8  | 36,5   | 21,8   | 13,7 | 6,06 | 4,1  | 2,26 | 1,22 |
| 1,600 V/C        | 76,8  | 37,9   | 22,3   | 14   | 6,18 | 4,16 | 2,3  | 1,24 |