

Sonnenschein A400 / A412/12SR

INDUSTRIAL BATTERIES / NETWORK POWER

The Sonnenschein A400 range is a reference for energy storage, with proven reliability in many installations worldwide. The success of A400 batteries comes from the superior dryfit technology, available in a wide range of models to provide a solution for every power need.

Part Number: NGA4120012HS0RA

APPLICATIONS



SPECIFICATIONS

- Exceptional energy storage capacity combined with long life
- Thick grid plates with high quality lead calcium alloy, for enhanced corrosion resistance and stability
- Very low gassing due to the internal gas recombination
- Classification according to EUROBAT 2015: "> 12 years – Very Long Life"
- Shelf life up to 2 years at 20°C without recharge due to the very low self discharge rate
- 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)
- Approval: UL (Underwriters Laboratories)
- Manufactured in Europe in our ISO 9001 certified production plants



Design life
15 years for
blocks ≥ 20 Ah
12 years for
blocks < 20 Ah



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.



For more information please
[contact your local dealer](#)

TECHNICAL CHARACTERISTICS AND DATA

| | |
|------------------------------|---|
| Nominal voltage | 12 V |
| Float charge | 2,27 V/C @ 20 °C |
| Capacity | CP 10min 1,6V/C 20°C 263W/Bloc CC 10h 1,8V/C 20°C 12Ah |
| Short circuit current | 260 A (IEC60896-21/22) |
| Internal resistance | 47 mΩ (IEC60896-21/22) |

| | |
|---------------------------------|-----------------------|
| Terminal | SR-6.3 |
| Container | ABS |
| Temperature range | -40°C to 55°C |
| Dimensions (l x b/w x h) | 181 x 76 x 157 mm |
| Weight | 5,6 kg |
| Origin | Castanheira, Portugal |

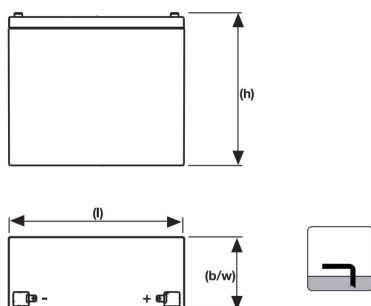
CONSTANT POWER DISCHARGE

| W @ 20 °C | 2 min | 3 min | 5 min | 7 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h | 2 h | 3 h |
|-----------|-------|-------|-------|-------|--------|--------|--------|--------|--------|------|-----|-----|
| 1,850 V/C | 252 | 239 | 219 | 203 | 185 | 157 | 141 | 115 | 89,4 | 74,8 | 38 | 29 |
| 1,800 V/C | 314 | 292 | 258 | 235 | 208 | 177 | 153 | 125 | 95,8 | 79,2 | 42 | 31 |
| 1,750 V/C | 355 | 331 | 296 | 262 | 233 | 193 | 164 | 132 | 99,4 | 81 | 45 | 33 |
| 1,700 V/C | 394 | 366 | 323 | 286 | 247 | 203 | 170 | 135 | 101 | 82,5 | 45 | 33 |
| 1,650 V/C | 436 | 399 | 348 | 304 | 255 | 209 | 174 | 136 | 102 | 82,9 | 45 | 33 |
| 1,600 V/C | 474 | 424 | 358 | 317 | 263 | 213 | 176 | 137 | 102 | 83,2 | 45 | 33 |

CONSTANT CURRENT DISCHARGE

| A @ 20 °C | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h | 2 h | 3 h | 4 h | 5 h | 8 h | 10 h |
|-----------|-------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|-----|------|
| 1,850 V/C | 18 | 15 | 12 | 11 | 9 | 7 | 5,5 | 3,3 | 2,5 | 2 | 1,7 | 1,2 | 1,1 |
| 1,800 V/C | 21 | 18 | 14 | 12 | 10 | 8 | 6,2 | 3,7 | 2,8 | 2,2 | 1,9 | 1,3 | 1,2 |
| 1,750 V/C | 24 | 20 | 16 | 13 | 10 | 8 | 6,6 | 3,9 | 2,9 | 2,3 | 1,9 | 1,4 | 1,2 |
| 1,700 V/C | 28 | 21 | 16 | 13 | 10 | 8 | 6,8 | 4 | 2,9 | 2,3 | 2 | 1,4 | 1,2 |
| 1,650 V/C | 30 | 22 | 17 | 14 | 11 | 9 | 6,8 | 4 | 2,9 | 2,3 | 2 | 1,4 | 1,2 |
| 1,600 V/C | 33 | 23 | 17 | 14 | 11 | 9 | 6,8 | 4 | 2,9 | 2,3 | 2 | 1,4 | 1,2 |

Technical drawing



Float Voltage vs Temperature

