

Sonnenschein A500 / A512/140A

INDUSTRIAL BATTERIES / NETWORK POWER

Batteries of the Sonnenschein A500 range provide high capacities for many different applications. This range has been successfully in use for over twenty years in many installations worldwide. The success of A500 batteries comes from the superior dryfit technology, available in a wide range of models to provide a solution for every power need.



Part Number: NGA5120140HS0CA

APPLICATIONS



SPECIFICATIONS

- Excellent energy storage capacity combined with high reliability
- Grid plate construction with high quality lead calcium alloy, specially designed for enhanced energy density
- Very low gassing due to the internal gas recombination
- Design life: »10-12 Years – Long Life« according to EUROBAT 2015 classification
- Shelf life up to 2 years at 20 °C without recharge due to the very low self discharge rate
- Superior cycling performance
- Designed in accordance with IEC 60896-21/-22
- Approval: UL (Underwriters Laboratories)
- Trouble-free transport of operational blocks, no restrictions for rail, road, sea and air transportation (IATA, DGR, clause A67)
- Manufactured in Europe in our ISO 9001 certified production plants



Design life
10 - 12 years
- Long Life



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 | 2,3 V/C @ 20 °C |
| Capacity | CP 10min 1,6V/C 20°C 3117W/Bloc CC 20h 1,75V/C 20°C 140Ah |
| Short circuit current | 3132 A (IEC60896-21/22) |
| Internal resistance | 4,1 mΩ (IEC60896-21/22) |

| | |
|---------------------------------|--------------------|
| Terminal | A |
| Terminal Torque | 8 Nm |
| Container | PP (Polypropylene) |
| Temperature range | -40°C to 55°C |
| Dimensions (l x b/w x h) | 223 x 513 x 223 mm |
| Weight | 47 kg |
| Origin | Büdingen, Germany |

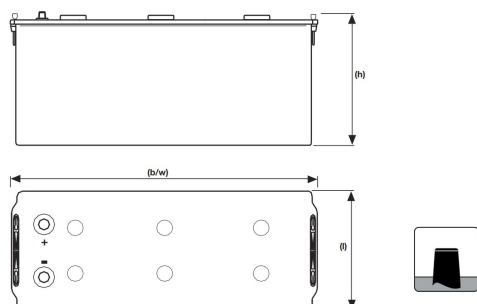
CONSTANT POWER DISCHARGE

| W @ 20 °C | 3 min | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h | 90 min |
|-----------|-------|-------|--------|--------|--------|--------|--------|-----|--------|
| 1,850 V/C | 3674 | 3172 | 2549 | 2101 | 1755 | 1330 | 1040 | 839 | 647 |
| 1,800 V/C | 4127 | 3631 | 2819 | 2246 | 1906 | 1424 | 1070 | 880 | 674 |
| 1,750 V/C | 4647 | 3937 | 2912 | 2365 | 1995 | 1479 | 1096 | 904 | 689 |
| 1,700 V/C | 4974 | 4211 | 2981 | 2440 | 2050 | 1513 | 1117 | 920 | 700 |
| 1,650 V/C | 5316 | 4435 | 3060 | 2489 | 2087 | 1538 | 1133 | 934 | 709 |
| 1,600 V/C | 5631 | 4606 | 3117 | 2522 | 2113 | 1555 | 1144 | 945 | 716 |

CONSTANT CURRENT DISCHARGE

| A @ 20 °C | 5 min | 10 min | 15 min | 20 min | 30 min | 1 h | 2 h | 3 h | 5 h | 8 h | 10 h |
|-----------|-------|--------|--------|--------|--------|------|------|------|------|------|------|
| 1,850 V/C | 275 | 220 | 178 | 151 | 118 | 75,1 | 45,7 | 32,5 | 21,3 | 14 | 11,5 |
| 1,800 V/C | 315 | 244 | 198 | 166 | 128 | 79,7 | 47,7 | 33,8 | 22 | 14,5 | 11,9 |
| 1,750 V/C | 357 | 264 | 211 | 176 | 133 | 82,3 | 48,9 | 34,5 | 22,3 | 14,8 | 12,2 |
| 1,700 V/C | 397 | 282 | 222 | 183 | 137 | 84,1 | 49,9 | 35,1 | 22,6 | 15 | 12,2 |
| 1,650 V/C | 423 | 294 | 229 | 189 | 141 | 85,4 | 50,3 | 35,4 | 22,6 | 15 | 12,2 |
| 1,600 V/C | 452 | 303 | 235 | 193 | 143 | 86,3 | 50,6 | 35,4 | 22,6 | 15 | 12,2 |

Technical drawing



Float Voltage vs Temperature

