

# Sonnenschein A500 / A512/3,5S

## 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: NGA51203D5HS0SA**



### 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

<b>Nominal voltage</b>	12 V
<b>Float charge</b>	2,3 V/C @ 20 °C
<b>Capacity</b>	CP 10min 1,6V/C 20°C 95W/Bloc CC 20h 1,75V/C 20°C 3,5Ah
<b>Short circuit current</b>	88 A (IEC60896-21/22)
<b>Internal resistance</b>	142 mΩ (IEC60896-21/22)

<b>Terminal</b>	S-4.8
<b>Container</b>	ABS
<b>Temperature range</b>	-40°C to 55°C
<b>Dimensions (l x b/w x h)</b>	66,8 x 135 x 64,4 mm
<b>Weight</b>	1,5 kg
<b>Origin</b>	Castanheira, Portugal

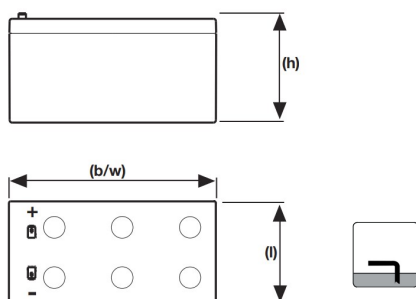
## CONSTANT POWER DISCHARGE

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	124	102	77	63	52	40	33	26	18
1,800 V/C	136	114	84	66	56	42	34	27	19
1,750 V/C	146	123	89	69	59	44	35	27	19
1,700 V/C	159	131	92	72	60	45	35	28	20
1,650 V/C	170	137	93	73	61	45	35	28	20
1,600 V/C	178	139	95	74	61	45	36	28	20

## 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	9,5	6,7	5,5	4,5	3,4	2,1	1,4	0,95	0,6	0,39	0,32
1,800 V/C	10,6	7,4	6	4,9	3,7	2,2	1,4	0,98	0,62	0,4	0,33
1,750 V/C	11,3	7,9	6,2	5,1	3,8	2,3	1,4	0,99	0,62	0,41	0,34
1,700 V/C	12,1	8,3	6,3	5,2	3,9	2,3	1,4	1	0,63	0,41	0,34
1,650 V/C	12,7	8,5	6,5	5,3	3,9	2,3	1,4	1,01	0,63	0,41	0,34
1,600 V/C	13,1	8,7	6,5	5,3	3,9	2,3	1,4	1,01	0,63	0,41	0,34

## Technical drawing



## Float Voltage vs Temperature

