

# Sonnenschein A400 / A412/120A V0

## 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: NGA4120120VS0CA**



### 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

<b>Nominal voltage</b>	12 V
<b>Float charge</b>	2,27 V/C @ 20 °C
<b>Capacity</b>	CP 10min 1,6V/C 20°C 2260W/Bloc CC 10h 1,8V/C 20°C 120Ah
<b>Short circuit current</b>	2118 A (IEC60896-21/22)
<b>Internal resistance</b>	5,7 mΩ (IEC60896-21/22)

<b>Terminal</b>	A
<b>Terminal Torque</b>	8 Nm
<b>Container</b>	PP (Polypropylene)
<b>Temperature range</b>	-40°C to 55°C
<b>Dimensions (l x b/w x h)</b>	223 x 513 x 219 mm
<b>Weight</b>	45 kg
<b>Origin</b>	Büdingen, Germany

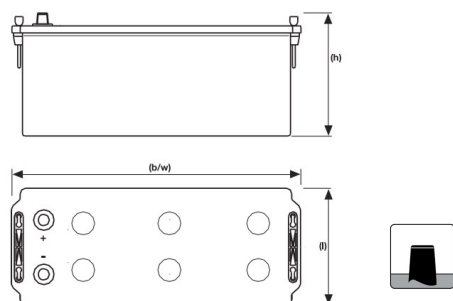
## CONSTANT POWER DISCHARGE

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	2418	2254	1964	1773	1575	1385	1272	1109	914	745	410	300
1,800 V/C	2958	2668	2286	2027	1769	1496	1346	1146	971	803	446	326
1,750 V/C	3453	3084	2593	2262	1940	1610	1387	1176	997	829	460	329
1,700 V/C	3821	3501	2938	2497	2090	1699	1441	1195	1008	840	460	330
1,650 V/C	4111	3798	3170	2682	2194	1757	1474	1205	1012	845	460	331
1,600 V/C	4297	3942	3330	2779	2260	1791	1494	1210	1014	847	460	332

## 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	175	138	120	108	95	78	61	37	27,5	22,3	18,9	13	11,3
1,800 V/C	202	155	133	119	102	85	67	39	28,7	23	19,4	13,2	12
1,750 V/C	233	174	145	127	106	88	69	40	29,1	23,3	19,5	13,2	12
1,700 V/C	280	200	160	136	109	90	70	40	29,3	23,4	19,6	13,2	12
1,650 V/C	311	217	169	142	111	91	71	41	29,4	23,4	19,6	13,2	12
1,600 V/C	333	228	175	146	112	91	71	41	29,5	23,4	19,6	13,2	12

## Technical drawing



## Float Voltage vs Temperature

