

# Sonnenschein A400 / A412/20G5

## 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: NGA4120020HS0BA**

### 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 (Underwriter 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 leadacid 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](#)

### EXIDE Distributionscenter Frankfurt a.M.

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## 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 447W/Bloc CC 10h 1,8V/C 20°C 20Ah
<b>Short circuit current</b>	460 A (IEC60896-21/22)
<b>Internal resistance</b>	25 mΩ (IEC60896-21/22)

<b>Terminal</b>	G-M5
<b>Terminal Torque</b>	5 Nm
<b>Container</b>	PP (Polypropylene)
<b>Temperature range</b>	-40°C to 55°C
<b>Dimensions (l x b/w x h)</b>	167 x 176 x 126 mm
<b>Weight</b>	9 kg
<b>Origin</b>	Büdingen, Germany

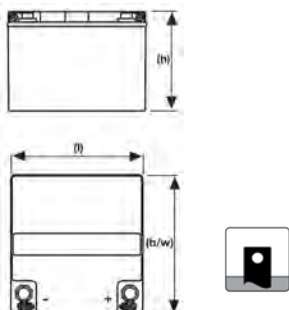
## CONSTANT POWER DISCHARGE

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	438	414	378	348	302	257	229	195	151	126	71	51
1,800 V/C	566	521	467	421	359	291	252	208	160	132	77	55
1,750 V/C	658	596	518	467	398	315	267	213	165	135	77	56
1,700 V/C	741	657	555	494	424	331	277	216	166	136	78	56
1,650 V/C	799	701	583	511	438	339	282	218	167	136	79	56
1,600 V/C	874	760	610	521	447	343	285	219	168	137	80	56

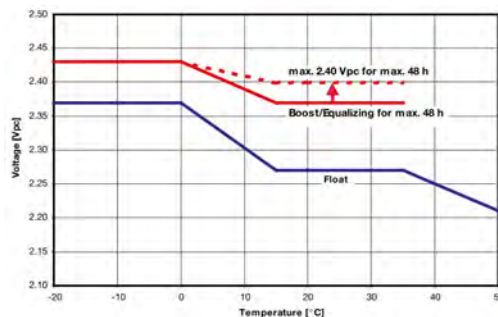
## CONSTANT CURRENT DISCHARGE

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	33	25	22	20	17	14	11	6	4,7	3,8	3,2	2,1	1,9
1,800 V/C	36	27	23	21	18	15	12	7	4,9	3,9	3,3	2,2	2
1,750 V/C	45	34	27	23	18	15	12	7	5	3,9	3,3	2,2	2
1,700 V/C	51	38	29	24	19	15	12	7	5	4	3,3	2,2	2
1,650 V/C	56	40	31	25	19	15	12	7	5	4	3,3	2,2	2
1,600 V/C	60	42	31	26	19	15	12	7	5	4	3,3	2,2	2

## Technical drawing



## Float Voltage vs Temperature



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