

# Sonnenschein A400 / A412/50F10

## 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: NGA4120050HS0FA**

### 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 1151W/Bloc CC 10h 1,8V/C 20°C 50Ah
<b>Short circuit current</b>	1220 A (IEC60896-21/22)
<b>Internal resistance</b>	10 mΩ (IEC60896-21/22)

<b>Terminal</b>	F-M10
<b>Terminal Torque</b>	17 Nm
<b>Container</b>	PP (Polypropylene)
<b>Temperature range</b>	-40°C to 55°C
<b>Dimensions (l x b/w x h)</b>	278 x 175 x 196 mm
<b>Weight</b>	19 kg
<b>Origin</b>	Büdingen, Germany

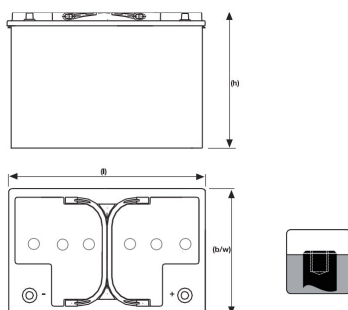
## CONSTANT POWER DISCHARGE

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	1149	1075	1002	949	876	785	699	590	458	376	193	139
1,800 V/C	1385	1269	1135	1041	969	862	770	626	492	400	210	151
1,750 V/C	1591	1480	1293	1148	1032	923	819	653	511	413	215	152
1,700 V/C	1734	1584	1406	1234	1079	956	849	669	520	419	216	153
1,650 V/C	1931	1747	1480	1309	1120	991	866	677	524	422	217	153
1,600 V/C	2216	1989	1583	1363	1151	1001	875	682	526	423	218	154

## 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	81	68	57	51	42	34	28	18	12,8	10,2	8,5	5,7	4,8
1,800 V/C	98	81	66	57	46	37	29	19	13,3	10,5	8,8	5,9	5
1,750 V/C	109	90	73	61	48	38	30	19	13,5	10,7	8,9	6	5
1,700 V/C	122	94	77	64	49	39	31	19	13,6	10,7	8,9	6	5
1,650 V/C	133	98	79	66	50	39	31	19	13,6	10,7	8,9	6	5
1,600 V/C	144	101	81	67	51	40	31	19	13,6	10,7	8,9	6	5

## Technical drawing



## Float Voltage vs Temperature

