

Sonnenschein A400 / A412/90A

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: NGA4120090HS0CA

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 $\geq$ 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

Nominal voltage	12 V
Float charge	2,27 V/C @ 20 °C
Capacity	CP 10min 1,6V/C 20°C 1793W/Bloc CC 10h 1,8V/C 20°C 90Ah
Short circuit current	1733 A (IEC60896-21/22)
Internal resistance	7 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)	286 x 269 x 230 mm
Weight	33 kg
Origin	Büdingen, Germany

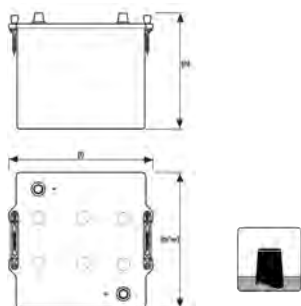
CONSTANT POWER DISCHARGE

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	1686	1620	1493	1374	1243	1080	987	828	647	543	332	246
1,800 V/C	1940	1848	1706	1554	1395	1185	1062	891	692	574	360	267
1,750 V/C	2301	2185	1984	1796	1564	1299	1128	927	716	590	375	272
1,700 V/C	2553	2398	2177	1950	1670	1368	1172	945	727	598	375	273
1,650 V/C	2824	2598	2305	2067	1744	1415	1200	954	732	601	376	274
1,600 V/C	3046	2755	2398	2157	1793	1444	1217	961	736	604	377	275

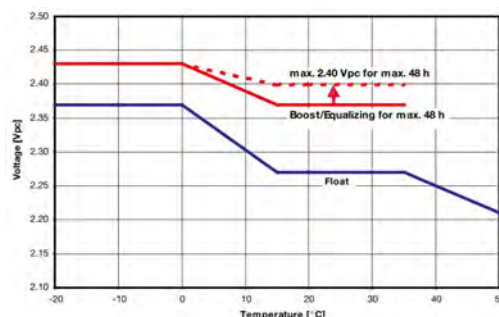
CONSTANT CURRENT DISCHARGE

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	136	117	100	89	71	55	46	30	22,8	17,6	14,8	10,4	8,9
1,800 V/C	166	142	118	100	79	61	50	32	23,5	18,3	15,5	10,8	9
1,750 V/C	186	154	128	108	84	64	52	33	24,1	18,8	15,8	11	9
1,700 V/C	206	164	137	113	87	66	53	33	24,3	18,9	16,3	11	9
1,650 V/C	225	172	142	116	88	67	53	33	24,5	19	16,3	11	9
1,600 V/C	245	177	145	118	89	68	54	34	24,5	19	16,3	11	9

Technical drawing



Float Voltage vs Temperature



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