

Sonnenschein A400 FT / A412/120FT

INDUSTRIAL BATTERIES / NETWORK POWER

The Sonnenschein A400 FT is a premium battery, delivering superior cyclic performance and exceptional reliability due to the globally proven and successful dryfit technology. The location of the terminals on the front (vs. the top) of the battery greatly facilitates the installation and maintenance of the product when placed in a cabinet enclosure or on a standard relay rack tray.

Part Number: NGA4120120HS0MA

APPLICATIONS



SPECIFICATIONS

- Design life »> 12 years – Very Long Life« according to EUROBAT 2015 classification
- Superior cycle performance
- Shelf life of up to 2 years without recharge (20 °C) due to very low self discharge
- Very low gassing
- Short recharge time
- Grid plate made of lead calcium alloy
- Trouble-free transport of operational blocks, no restrictions for rail, road, sea and air transportation (IATA, DGR, clause A67)
- Approval: Underwriters Laboratories (UL)
- Front access to the terminals M8 male
- Insulated block connector and protected terminals
- Handles for easy transportation
- Polypropylene container
- Designed in accordance with IEC 60896-21/-22
- Proven life in many installations worldwide
- Manufactured in Europe in our ISO 9001 certified production plants



Design life
> 12 years -
Very 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 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](#)

TECHNICAL CHARACTERISTICS AND DATA

Nominal voltage	12 V
Float charge	2,27 V/C @ 20 °C
Capacity	CP 10min 1,6V/C 20°C 2410W/Bloc CC 10h 1,8V/C 20°C 120Ah
Short circuit current	1725 A (IEC60896-21/22)
Internal resistance	7 mΩ (IEC60896-21/22)

Terminal	M-M8-45°
Terminal Torque	8 Nm
Container	PP (Polypropylene)
Temperature range	-40°C to 55°C
Dimensions (l x b/w x h)	115 x 548 x 275 mm
Weight	40 kg
Origin	Büdingen, Germany

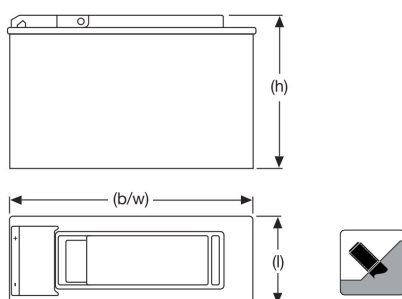
CONSTANT POWER DISCHARGE

W @ 20 °C	5m	10m	15m	20m	30m	45m	1h	90m	2h	3h	4h	5h	6h	8h	10h	11h	12h	15h	18h	20h
1,900 V/C	1765	1459	1261	1110	927	775	682	545	462	330	259	215	195	153	127	117	109	90,6	77,9	71,3
1,870 V/C	1923	1661	1431	1248	1030	850	741	585	493	361	283	235	205	161	133	123	114	94,7	81,2	74,3
1,850 V/C	2054	1816	1568	1357	1106	902	780	608	513	379	297	246	211	165	136	126	117	96,7	82,8	75,8
1,830 V/C	2210	1918	1629	1429	1154	932	801	619	522	388	303	251	215	168	139	128	119	98,2	84,1	76,8
1,800 V/C	2355	2002	1684	1457	1185	957	821	630	532	397	310	256	219	171	141	130	121	99,7	85,2	77,9
1,770 V/C	2463	2089	1741	1499	1215	984	836	637	540	403	314	259	222	173	143	131	122	101	86	78,5
1,750 V/C	2568	2144	1790	1544	1242	999	848	646	549	406	317	261	223	174	143	132	123	101	86,3	78,8
1,730 V/C	2694	2193	1839	1585	1267	1012	856	653	554	408	318	262	224	175	144	133	123	101	86,7	79,1
1,700 V/C	2809	2245	1885	1620	1289	1025	867	658	558	411	320	264	225	176	145	133	124	102	87	79,4
1,670 V/C	2945	2285	1918	1652	1308	1036	875	662	560	413	322	265	226	176	145	134	124	102	87,2	79,6
1,650 V/C	3041	2310	1943	1668	1318	1042	881	666	562	414	322	266	227	177	145	134	124	102	87,4	79,7
1,600 V/C	3259	2410	1984	1682	1333	1051	889	670	566	416	324	267	228	177	146	135	125	103	87,7	80

CONSTANT CURRENT DISCHARGE

A @ 20 °C	5m	10m	15m	20m	30m	45m	1h	90m	2h	3h	4h	5h	6h	8h	10h	11h	12h	15h	18h	20h
1,900 V/C	142	124	117	105	84,6	66,5	56,1	43,8	36	26,6	21	17,6	15,3	12,5	10,8	9,89	9,15	7,5	6,35	5,75
1,870 V/C	163	137	128	113	90,7	71,2	60,1	46,8	38,5	27,8	21,9	18,4	16	13	11,2	10,3	9,53	7,81	6,62	5,99
1,850 V/C	191	152	139	122	96,1	75,3	63,5	48,8	39,7	28,6	22,5	18,9	16,5	13,4	11,6	10,6	9,83	8,05	6,82	6,18
1,830 V/C	204	163	146	127	101	78,9	66,1	50,3	40,5	29,2	23	19,3	16,8	13,7	11,8	10,8	10	8,21	6,96	6,31
1,800 V/C	217	173	152	133	105	81,4	67,5	51,2	41,1	29,6	23,3	19,6	17	13,9	12	11	10,2	8,34	7,07	6,4
1,770 V/C	227	181	158	138	107	82,8	68,2	51,8	41,5	29,9	23,6	19,8	17,2	14	12,1	11,1	10,3	8,42	7,14	6,47
1,750 V/C	238	190	164	142	110	83,8	68,9	52,3	41,9	30,2	23,8	20	17,4	14,2	12,2	11,2	10,4	8,51	7,21	6,53
1,730 V/C	250	198	168	144	111	84,7	69,6	52,8	42,3	30,5	24,1	20,2	17,6	14,3	12,4	11,3	10,5	8,59	7,28	6,6
1,700 V/C	261	207	171	146	112	85,5	70,3	53,4	42,8	30,9	24,3	20,4	17,7	14,5	12,5	11,5	10,6	8,68	7,36	6,66
1,670 V/C	273	212	173	147	113	86,4	71	53,9	43,2	31,2	24,6	20,6	17,9	14,6	12,6	11,6	10,7	8,77	7,43	6,73
1,650 V/C	279	214	175	149	114	87,3	71,7	54,4	43,6	31,5	24,8	20,8	18,1	14,8	12,7	11,7	10,8	8,86	7,51	6,8
1,600 V/C	290	218	179	152	117	88,8	72,8	55,3	44,4	32	25,2	21,2	18,4	15	13	11,9	11	9	7,62	6,91

Technical drawing



Float Voltage vs Temperature

