

# Sonnenschein A400 FT

## Technical data sheet

### Technical features:

- Superior cycle performance
- Very low gassing
- Short recharge time
- Grid plate made of lead calcium alloy
- Front access to the terminals M8 male
- Insulated block connector and protected terminals
- Handles for easy transportation
- Polypropylene container
- Shelf life up to 2 years at 20 °C without recharge due to the very low self discharge rate

### Standards & certifications:

- EUROBAT 2015 classification: >12 years – very long life
- Designed in accordance with IEC 60896-21/22
- Trouble-free transportation without restrictions for most rail, road, sea, and air transport (IATA, DGR clause A67)
- Manufactured in Europe in our ISO 9001 certified production facilities
- Approval: UL (Underwriters Laboratories, USA)
- Proven life in many installations worldwide



Design life  
> 12 years –  
very long life



Nominal capacity  
120 Ah C<sub>10</sub>



Block battery



Grid plate



Recyclable



Valve regulated  
lead-acid  
batteries



Proof against  
deep discharge



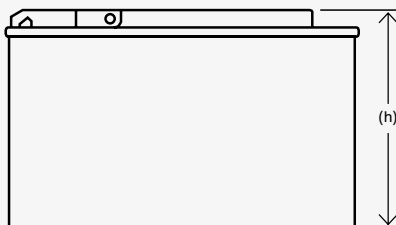
Maintenance free  
(no topping up)

### Technical characteristics and data

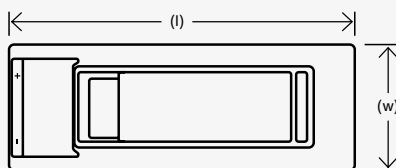
Type	Part number	Nom. voltage	Nominal capacity	Length	Width	Height	Weight*	Internal resistance	Short circuit current	Terminal
		V	C <sub>10</sub> 1.80 Vpc 20 °C	(l)	(w)	(h)	approx. kg	mOhm	A	
		Ah	max. mm	max. mm	max. mm					
A412/120 FT	NGA4120120HS0MA	12	120	548	115	275	40.0	7.00	1725	M-M8-45°

\* Actual weight may differ by ±5%

### Drawings, terminal and torque



8 Nm



Not to scale!

# Sonnenschein A400 FT

## Technical data sheet

V <sub>pc</sub>	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	20 h
-----------------	-------	--------	--------	--------	--------	--------	-----	-----	-----	-----	-----	-----	------	------

### A412/120 FT – Constant current discharge in A at 20 °C

1.90	141	123	117	104	84.6	66.4	56.1	36.0	26.6	20.9	17.6	12.4	10.7	5.75
1.87	162	137	128	113	90.6	71.1	60.0	38.4	27.7	21.8	18.3	13.0	11.2	5.99
1.85	190	152	139	121	96.0	75.3	63.5	39.6	28.6	22.5	18.9	13.4	11.5	6.17
1.83	204	162	145	127	100	78.8	66.1	40.4	29.1	22.9	19.3	13.6	11.8	6.30
1.80	216	172	152	132	104	81.4	67.5	41.0	29.6	23.3	19.6	13.8	12.0	6.40
1.77	227	180	157	137	107	82.8	68.1	41.5	29.9	23.5	19.8	14.0	12.1	6.46
1.75	238	189	163	141	109	83.8	68.8	41.9	30.2	23.8	20.0	14.1	12.2	6.53
1.73	249	198	168	144	110	84.6	69.5	42.3	30.5	24.0	20.2	14.3	12.3	6.59
1.70	261	206	171	145	112	85.5	70.2	42.7	30.8	24.3	20.4	14.4	12.4	6.66
1.67	273	211	173	147	113	86.3	70.9	43.2	31.1	24.5	20.6	14.6	12.6	6.73
1.65	278	213	174	148	114	87.2	71.7	43.6	31.4	24.8	20.8	14.7	12.7	6.79
1.60	290	218	178	151	116	88.8	72.8	44.3	32.0	25.2	21.1	15.0	12.9	6.91

### A412/120 FT – Constant power discharge in W/block at 20 °C

1.90	1765	1459	1261	1110	927	774	681	462	329	259	215	153	127	71.3
1.87	1922	1660	1430	1248	1029	849	741	493	360	283	234	160	133	74.2
1.85	2054	1815	1568	1356	1105	901	780	513	379	296	245	164	136	75.7
1.83	2210	1918	1628	1428	1153	931	800	521	387	303	250	167	138	76.8
1.80	2354	2001	1683	1457	1185	957	821	532	396	310	256	171	141	77.8
1.77	2462	2088	1740	1499	1214	984	836	540	402	314	259	172	142	78.5
1.75	2568	2144	1790	1543	1241	998	847	549	405	316	261	173	143	78.8
1.73	2694	2193	1839	1585	1266	1011	856	554	408	318	262	174	144	79.1
1.70	2809	2245	1884	1620	1288	1025	866	558	410	320	263	175	144	79.3
1.67	2944	2284	1918	1651	1308	1036	874	559	412	321	265	176	145	79.6
1.65	3040	2309	1942	1668	1318	1042	880	561	413	322	265	176	145	79.7
1.60	3259	2409	1983	1681	1332	1050	888	566	416	323	266	177	146	80.0