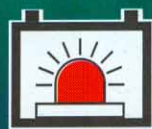


Standby batteries: **Powerfit** **S300, S500**

**Compact energy source
for increased security.**



Sonnenschein:

You can count on our
expertise – worldwide.



The Sonnenschein battery range:

Standby batteries

Traction batteries

Starter batteries

Lithium batteries

With over 80 years experience in the design and manufacture of batteries, Sonnenschein offers innovative technology, continuous product improvement and development, and the highest production standards. This experience provides an excellent basis for any battery application.

Batteries are an essential component in ensuring that the safety and reliability of your electrical equipment is maintained. The selection and implementation of electrical back up in the form of a storage battery is based on reliability, performance, size, and reduced operating and investment costs.

Within the context of these requirements, Sonnenschein has developed a new generation of batteries for electrical back up applications.

Absolutely maintenance free during their whole service life the Powerfit ranges benefits from the many years' experience Sonnenschein has acquired in VRLA (Valve Regulated Lead Acid) batteries and the latest technical developments in the storage of electricity.

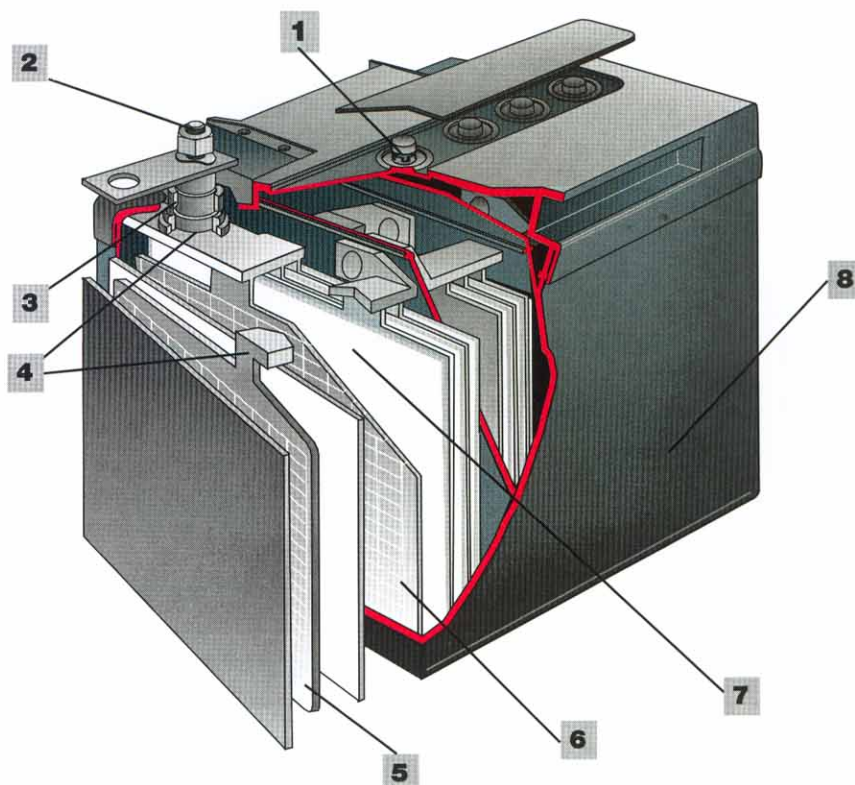
Compact, economical and comprehensive in terms of the products on offer, the new Powerfit series can be used in a wide range of stand-by applications.

THE ADVANTAGES OF THE POWERFIT RANGE

Built on new ISO 9000 certified production lines, the Powerfit batteries offer the following technical advantages:

- New lead/calcium/tin alloy (no antimony or cadmium) to improve performance and durability.
- New design of positive grids to prolong the lifespan of the battery in floating mode.
- New oxide to improve the contact between the grid and the material and thus increase the stored capacities and available power.
- Compressed separator with a porosity of over 95% to reduce internal resistance and optimise rapid recharging.
- Optimisation of the acid/active material ratio for longer lifespan.
- Excellent price/performance ratio in terms of amperes per hour, thus making it extremely competitive.
- Very low self-discharge rate: batteries can be stored up to 11 months at 20 °C.
- Rapid recharge due to very low internal resistance.

- Powerfit batteries from Sonnenschein are sealed, rechargeable VRLA lead-acid batteries with a lead/tin alloy in AGM technology. In contrast to conventional systems the electrolyte is retained in a glass mat with a very fine glass-fibre structure (Absorbed Glass Mat).
- Powerfit batteries are absolutely maintenance-free and are therefore especially economic in use – costly service intervals are eliminated along with separate battery charging rooms and their fittings.
- Due to close plate separation giving a low internal resistance, excellent high current discharge characteristics are achieved. High energy densities make Powerfit batteries compact, powerful energy sources.
- Powerfit batteries not only feature easy handling and high performance, but are also low gassing, reliable under deep discharge conditions and fast charging. Their low self-discharge rate allows storage times of up to eleven months at 20 °C.
- **Containers for S and L ranges can be, on request, in flame retardant material following BS 6336 FVO - IEC 707 FVO - UL94 VO standards.**



Safety

- | | |
|---|---|
| <p>☐ VRLA technology : 99 % of generated gases are recombined, thus minimising the need to service the battery throughout its lifespan.</p> <p>1 Extra reliable safety valve (discharges gases and prevents the intrusion of air) to ensure operational battery safety.</p> <p>2 Direct output terminals with threaded insert and reinforced section for high-intensity discharges.</p> <p>3 Output terminal anti-leak system to ensure operational safety when used in the horizontal or vertical position.</p> <p>4 High current collector with improved grid bar.</p> <p>5 6 Flat anti-corrosion plates.</p> <p>7 Anti-bypass separator to prevent short circuits.</p> <p>8 Fire and mechanical shock-resistant lid/cover assembly. PP talc material significantly reduces gas permeability.</p> | <p>☐ All Powerfitt products are conform to the following standards :
IEC 896 -2 - DIN43534 - NFS 61940.
S and L products are conform to BS6290 standard</p> <p>☐ No restrictions for most air, rail and sea transportation (in accordance to IATA, DGR clause A 67).</p> <p>☐ Safe under deep discharge conditions according to DIN 43539 Part 5.</p> <p>☐ Installation: when installing Powerfit batteries in rooms, cabinets or racks please follow instructions in conformance with VDE 0510 Part 2/Part 7 and NF-C 15-100.</p> <p>☐ Powerfit batteries can be recycled. Sonnenschein will accept your old Powerfit batteries at the end of their service life for recycling.</p> |
|---|---|

S300/S500

YOUR ENERGY REQUIREMENT

Batteries are an essential component in ensuring the safety and reliability of your electrical equipment is maintained. The selection and implementation of electrical back up in the form of a storage battery is based on reliability, performance, size, and reduced operating and investment costs.

APPLICATIONS

S300/S500 batteries are designed for traditional stand-by applications requiring strong competitiveness. The Powerfit S 300 and S 500 Series can be employed in a multitude of applications in the fields of telecommunications, energy production and supply, remote control, control and data processing, industrial energy supply, emergency lighting and in UPS systems. They are particularly suitable for general applications in security systems.

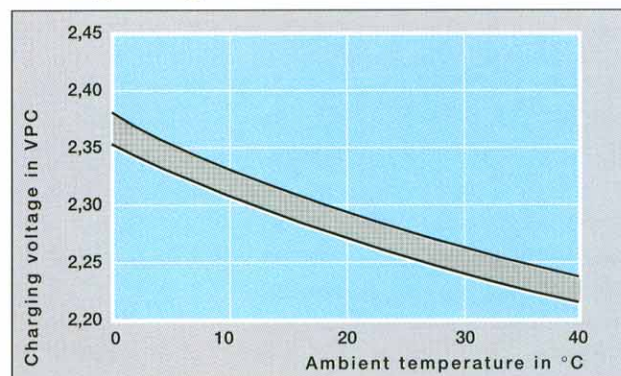
THE S300/S500 RANGE

Defined to efficiently cover the needs of the market in terms of electrical back up, the range is divided into 2 series:

- S300: 3-5 year design life.
- S500: 5-8 year design life, technically based on the Sonnenschein longlife series for increased durability.

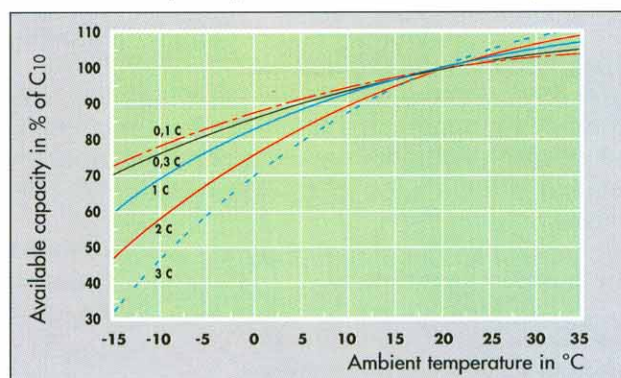


Floating voltage



For continuous charging we recommend a voltage of 2.27 V/cell at 20 °C. The charging voltage must be compensated to the curve for a continuously different battery ambient temperature.

Available capacity in relation to the temperature



Technical characteristic and data

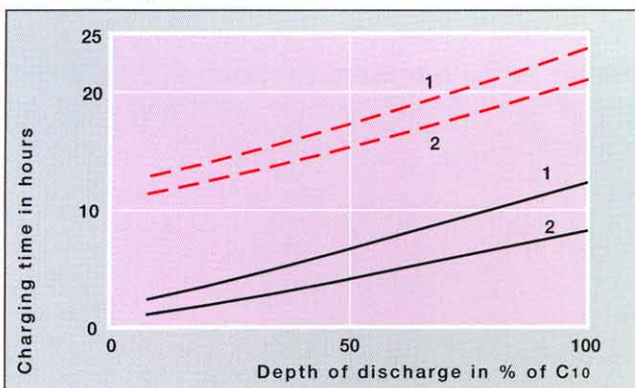
Container Design	Product	Voltage in V	Capacity in Ah at 20 °C		Length in mm	Width in mm	Height in mm over all	Weight in kg	Internal resistance mΩ	Output type
			20 h at 1,75Vpc	10 h at 1,8Vpc						
PS 1	S306/1,2	6	1,20	1,00	97	25	55	0,28	60	Faston 4,7
PD 1	S312/1,2	12	1,20	1,00	97	47,5	55	0,57	120	Faston 4,7
PD 2	S312/2,0	12	2,00	1,70	178	34	64	0,83	60	Faston 4,7
PD 3	S312/3,0	12	3,00	2,90	134	67	64	1,4	50	Faston 4,7
PS 4	S306/4,0	6	4,00	3,60	70	47	101	0,85	20	Faston 4,7
PD 4	S312/4,0	12	4,00	3,60	90	70	106	1,7	40	Faston 4,7
PS 7	S306/7,0	6	6,00	6,60	151	34	98	1,3	15	Faston 4,7
PD 7	S312/7,0	12	7,20	6,60	151	65	98	2,5	30	Faston 4,7
PS 10	S306/10,0	6	11,3	10,4	151	50	98	1,9	9,5	Faston 4,7
PD 12	S312/12,0	12	12,0	11,0	151	98	98	4	15	Faston 4,7*
MD 1	S312/18,0	12	17,2	15,7	181	76	167	6,2	13	M 6 ou G 5
MD 2B	S312/25,0	12	24,4	22,3	168	177	126	8,5	10	M 6 ou G 5
MD 2H	S312/26,0	12	25,4	22,8	168	127	174	9,0	10	M 6
MD 4	S312/40,0	12	38,6	35,5	198	168	175	13,0	7,5	M 6
MD 5	S312/55,0	12	51,8	47,7	234	169	190	18,0	6,5	M 8
MD 6	S312/65,0	12	62,0	56,8	272	166	190	22,5	5,8	M 8

*Also available with 6,3 mm Faston

Container Design	Product	Voltage in V	Capacity in Ah at 20 °C		Length in mm	Width in mm	Height in mm over all	Weight in kg	Internal resistance mΩ	Output type
			20 h at 1,75Vpc	10 h at 1,8Vpc						
MD 1	S512/17	12	16,8	15,3	181	76	167	6,5	13	M 6
MD 2B	S512/24	12	23,6	21,7	168	177	126	9,0	10	M 6
MD 2H	S512/25	12	24,6	22,2	168	127	174	9,5	10	M 6
MD 4	S512/38	12	37,4	34,5	198	168	175	13,5	7,5	M 6
MD 5	S512/50	12	50,2	46,3	234	169	190	18,5	6,5	M 8
MD 6	S512/60	12	60,0	55,2	272	166	190	23,0	5,8	M 8
MD 8	S512/90	12	90,6	83,7	359	172	226	30,0	4,0	M 8
MS 10	S506/105	6	114	105	232	168	190	20,5	1,7	M 8
MS 13	S506/130	6	126	116	272	166	190	23,0	1,5	M 8
MS 17	S506/185	6	182	167	359	171	226	31,5	1,2	M 8
G 20	S502/235	2	235	215	208	135	282	15,5	0,31	M 12
G 25	S502/305	2	305	280	208	135	282	18,5	0,24	M 12
G 30	S502/375	2	375	345	208	201	282	23,3	0,19	2 x M 12
G 35	S502/425	2	425	400	208	201	282	25,6	0,17	2 x M 12
G 40	S502/495	2	495	455	208	201	282	28,8	0,14	2 x M 12
G 55	S502/515	2	515	470	208	270	282	32,7	0,14	2 x M 12
G 55	S502/565	2	565	520	208	270	282	35,1	0,125	2 x M 12
G 55	S502/625	2	625	575	208	270	282	37,4	0,11	2 x M 12

Connection type : faston or male insert

Recharging time



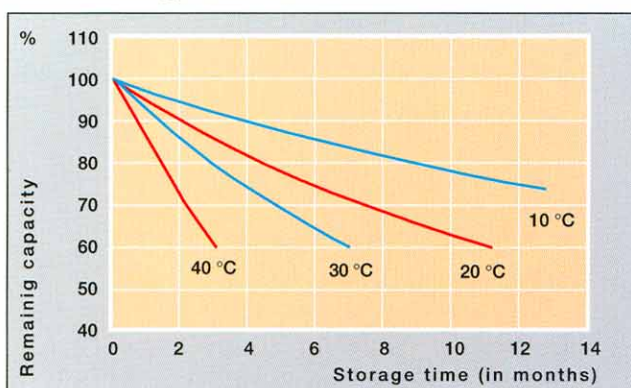
1: 0.1 C10

2: 0.2 C10

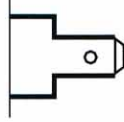
- - - State of charge 100% — State of charge 90%

Charging time according to depth of discharge - constant voltage charging 2,27 Vpc at 20°C with current limitation.

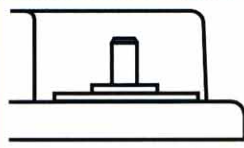
Self-discharge characteristics



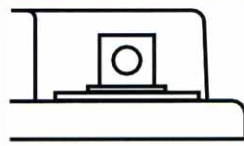
Dimensions and container designs



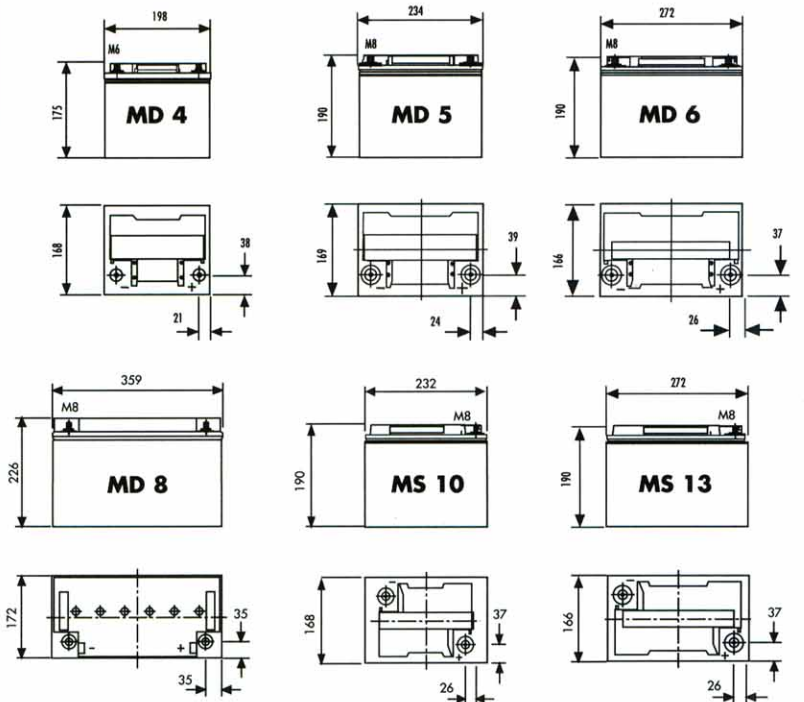
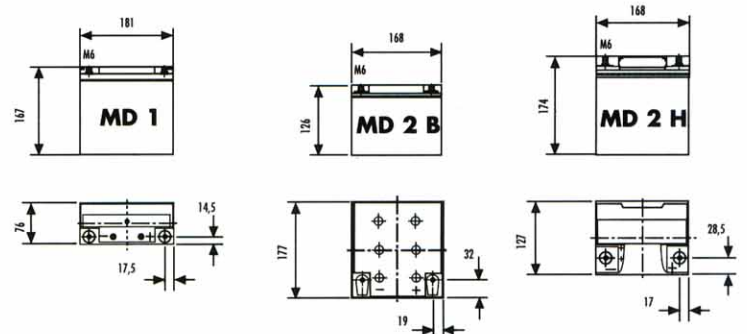
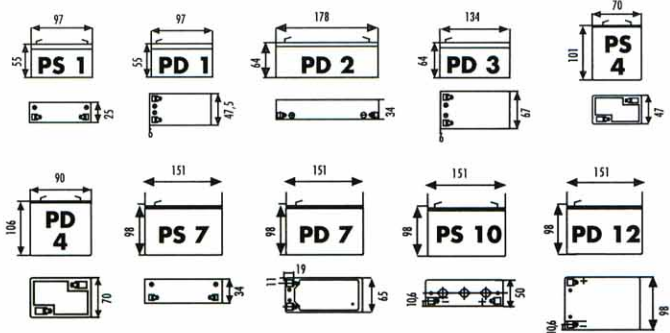
Faston



Male insert



G terminal



Sonnenschein services

To ensure that all POWERFIT batteries are installed properly, a dedicated Sonnenschein customer care department has been set up:

- Upstream, we integrate both your technical and commercial requirements in terms of space and safety. This is the job of our specialised teams, who help you design the technical solution best suited to your requirements and the best battery to install depending on your specifications.
- Downstream, we install your battery so that it is ready to use. You will benefit from the knowledge and experience of our technicians, qualified in on-site battery installation.



- Battery calculation
- Installation study
- Technical advice
- Creation of wiring diagrams and assembly drawings



- Wooden or metallic racks
- Antiseismic rack
- Power cabinet
- Circuit breaker, connection box
- Connection, wiring



- Replacing used batteries
- On-site assembly
- Maintenance contract
- Inspection visit



- Battery monitoring/CB 12 - CB 40
- Operating and data recording software
- Measuring point and wiring installation
- Analysis of results



- "Know the battery" training course
 - Designing and defining an electrical back-up system
 - Installing a battery
 - Establishing maintenance intervals
 - Operating a storage battery



Sonnenschein

Powerfit S 300

Rapid determination tables
constant current (A) at 20°C.

End of discharge voltage 1.95 V/Cell							
Products	30mn	1h	3h	5h	8h	10h	20h
S312/7,0	4,4	2,75	1,22	0,82	0,555	0,465	0,255
S306/11,0	7,1	4,4	1,94	1,30	0,88	0,73	0,40
S312/11,0	7,1	4,4	1,94	1,30	0,88	0,73	0,40
S312/18,0	11,5	7,3	3,1	2,0	1,4	1,3	0,7
S312/25,0	16,2	10,3	4,4	2,9	2,0	1,7	0,9
S312/26,0	17,6	10,9	4,7	3,1	2,1	1,8	1,0
S312/40,0	25,4	15,5	6,6	4,6	3,0	2,6	1,4
S312/55,0	35,5	22,3	9,0	6,2	4,3	3,7	1,9
S312/65,0	43,6	25,1	11,2	7,4	5,0	4,3	2,2

End of discharge voltage 1.90 V/Cell							
Products	30mn	1h	3h	5h	8h	10h	20h
S312/7,0	5,5	3,38	1,48	0,99	0,675	0,56	0,305
S306/11,0	8,9	5,4	2,36	1,57	1,07	0,88	0,48
S312/11,0	8,9	5,4	2,36	1,57	1,07	0,88	0,48
S312/18,0	13,4	8,6	3,8	2,5	1,7	1,4	0,7
S312/25,0	19,3	12,1	5,7	3,7	2,3	1,9	1,0
S312/26,0	20,4	12,8	5,9	3,8	2,4	2,1	1,1
S312/40,0	29,4	18,3	8,5	5,7	3,8	3,2	1,7
S312/55,0	41,6	26,7	10,9	7,7	5,1	4,4	2,3
S312/65,0	51,8	30,1	13,8	9,1	6,0	5,0	2,6

End of discharge voltage 1.85 V/Cell							
Products	30mn	1h	3h	5h	8h	10h	20h
S312/7,0	6,3	3,77	1,62	1,095	0,745	0,62	0,340
S306/11,0	10,1	6,0	2,59	1,73	1,18	0,98	0,535
S312/11,0	10,1	6,0	2,59	1,73	1,18	0,98	0,535
S312/18,0	15,2	9,6	4,2	2,7	1,8	1,5	0,8
S312/25,0	21,4	13,4	6,3	4,1	2,6	2,1	1,1
S312/26,0	23,0	14,2	6,4	4,1	2,6	2,2	1,2
S312/40,0	32,5	20,3	9,5	6,2	4,1	3,5	1,8
S312/55,0	46,7	28,9	12,4	8,4	5,6	4,6	2,4
S312/65,0	57,9	34,1	15,3	9,9	6,5	5,4	2,8

End of discharge voltage 1.80 V/Cell							
Products	30mn	1h	3h	5h	8h	10h	20h
S312/7,0	6,8	4,08	1,72	1,15	0,79	0,66	0,355
S306/11,0	11,0	6,5	2,74	1,82	1,25	1,04	0,560
S312/11,0	11,0	6,5	2,74	1,82	1,25	1,04	0,560
S312/18,0	16,2	10,5	4,6	2,8	1,9	1,6	0,8
S312/25,0	22,8	14,1	6,7	4,2	2,7	2,2	1,2
S312/26,0	25,1	15,1	6,9	4,3	2,7	2,3	1,2
S312/40,0	36,5	22,1	10,4	6,6	4,3	3,6	1,9
S312/55,0	51,8	31,0	13,8	8,8	5,8	4,8	2,5
S312/65,0	62,4	36,9	16,2	10,7	6,9	5,7	3,0

End of discharge voltage 1.75 V/Cell							
Products	30mn	1h	3h	5h	8h	10h	20h
S312/7,0	7,25	4,26	1,78	1,18	0,80	0,67	0,360
S306/11,0	11,6	6,8	2,83	1,87	1,265	1,055	0,565
S312/11,0	11,6	6,8	2,83	1,87	1,265	1,055	0,565
S312/18,0	17,1	10,7	4,7	2,9	1,9	1,6	0,9
S312/25,0	24,0	14,5	6,8	4,3	2,8	2,3	1,2
S312/26,0	26,1	15,3	7,0	4,4	2,8	2,4	1,25
S312/40,0	37,6	22,6	10,6	6,7	4,4	3,7	1,9
S312/55,0	53,8	31,5	14,1	9,0	5,9	4,9	2,6
S312/65,0	65,5	38,9	16,7	10,9	7,1	5,9	3,1

End of discharge voltage 1.70 V/Cell							
Products	30mn	1h	3h	5h	8h	10h	20h
S312/7,0	7,5	4,35	1,81	1,20	0,805	0,675	0,365
S306/11,0	12,0	6,95	2,89	1,90	1,275	1,06	0,570
S312/11,0	12,0	6,95	2,89	1,90	1,275	1,06	0,570
S312/18,0	17,6	10,9	4,8	3,0	2,0	1,7	0,9
S312/25,0	25,0	14,7	6,9	4,4	2,8	2,4	1,3
S312/26,0	26,9	15,5	7,1	4,5	2,9	2,4	1,3
S312/40,0	38,6	23,0	10,7	6,8	4,4	3,7	2,0
S312/55,0	55,3	32,0	14,3	9,1	6,0	5,0	2,6
S312/65,0	67,5	39,8	17,3	11,0	7,2	6,0	3,2

Powerfit S 300

Rapid determination tables

constant power (in W/monoblocs) at 20°C.

End of discharge voltage 1.85 V/Cell							
Products	5mn	10mn	15mn	20mn	30mn	45mn	1h
S312/7,0	202	144	114,5	96	73,2	55,0	44,6
S306/11,0	162	118,5	92,8	77,5	58,7	44,0	35,6
S312/11,0	324	237	185,6	155	117,4	88	71,2
S312/18,0	478	347	274	227	178	138	115
S312/25,0	686	497	393	328	253	193	158
S312/26,0	743	537	425	353	271	208	170
S312/40,0	1040	758	607	505	388	295	244
S312/55,0	1478	1080	859	717	551	417	342
S312/65,0	1938	1411	1113	918	682	499	405

End of discharge voltage 1.80 V/Cell							
Products	5mn	10mn	15mn	20mn	30mn	45mn	1h
S312/7,0	224	157	122,3	102,5	78,0	59,0	48,2
S306/11,0	184	129,5	101	84,0	63,7	47,4	38,2
S312/11,0	368	259	202	168	127,4	94,8	76,4
S312/18,0	555	392	302	249	191	148	124
S312/25,0	794	562	433	355	269	202	166
S312/26,0	858	606	466	384	290	219	179
S312/40,0	1213	868	674	556	421	318	261
S312/55,0	1722	1228	955	790	597	449	363
S312/65,0	2160	1546	1215	993	729	533	432

End of discharge voltage 1.75 V/Cell							
Products	5mn	10mn	15mn	20mn	30mn	45mn	1h
S312/7,0	239	166	128,5	107	81,0	60,5	49,1
S306/11,0	196	136	107	88,0	66,2	48,9	39,2
S312/11,0	392	272	214	176	132,4	97,8	78,4
S312/18,0	598	416	319	261	199	152	126
S312/25,0	861	597	458	374	280	207	170
S312/26,0	929	645	493	406	301	224	181
S312/40,0	1320	923	717	586	438	325	265
S312/55,0	1865	1307	1012	830	619	461	369
S312/65,0	2322	1647	1283	1041	763	560	453

End of discharge voltage 1.70 V/Cell							
Products	5mn	10mn	15mn	20mn	30mn	45mn	1h
S312/7,0	247	171	132,5	110,5	83,0	62,0	49,9
S306/11,0	204	142	111	91,0	67,8	49,8	39,8
S312/11,0	408	284	222	182	135,6	99,6	79,6
S312/18,0	632	432	328	268	204	154	127
S312/25,0	915	624	473	388	287	212	172
S312/26,0	987	674	513	417	310	227	183
S312/40,0	1399	964	741	606	447	329	268
S312/55,0	1983	1364	1045	859	636	467	376
S312/65,0	2454	1714	1316	1068	776	573	463

End of discharge voltage 1.65 V/Cell							
Products	5mn	10mn	15mn	20mn	30mn	45mn	1h
S312/7,0	254	176	135,5	112	84,5	62,7	50,4
S306/11,0	212	146	113	92,5	68,8	50,2	40,1
S312/11,0	424	394	226	185	137,6	100,4	80,2
S312/18,0	656	442	334	274	208	156	129
S312/25,0	947	640	481	393	290	214	174
S312/26,0	1022	690	521	425	316	229	184
S312/40,0	1449	986	754	614	453	333	271
S312/55,0	2052	1399	1069	870	641	470	379
S312/65,0	2558	1755	1343	1087	790	581	468

End of discharge voltage 1.60 V/Cell							
Products	5mn	10mn	15mn	20mn	30mn	45mn	1h
S312/7,0	258	179	137	113	85,2	63	50,7
S306/11,0	216	149	114	93,5	69,2	50,4	40,3
S312/11,0	432	298	228	187	138,4	100,8	80,6
S312/18,0	667	450	335	278	211	158	130
S312/25,0	965	651	487	398	293	215	175
S312/26,0	1041	701	528	430	318	230	184
S312/40,0	1475	999	761	619	457	337	273
S312/55,0	2092	1421	1076	881	648	472	381
S312/65,0	2639	1782	1360	1100	803	588	473



Sonnenschein

Powerfit S 500

Rapid determination tables
constant current (A) at 20°C.

End of discharge voltage 1.95 V/Cell							
Products	30mn	1h	3h	5h	8h	10h	20h
S512/17	11,1	7,1	3,1	2,0	1,4	1,2	0,6
S512/24	15,8	9,9	4,2	2,9	2,0	1,7	0,9
S512/25	17,0	10,5	4,5	3,1	2,1	1,8	0,9
S512/38	24,6	15,1	6,4	4,4	3,0	2,6	1,4
S512/50	34,5	21,7	8,8	6,0	4,1	3,5	1,9
S512/60	42,4	24,3	10,8	7,2	4,8	4,1	2,2
S512/90	55,7	35,5	16,0	10,3	7,1	6,3	3,3
S506/105	78,2	49,1	20,6	13,4	9,1	8,0	4,2
S506/130	84,7	53,2	23,1	15,1	10,2	9,0	4,7
S506/185	121	76,8	31,5	20,7	14,1	12,8	6,8
S502/235	117	79,5	38,3	25	16,9	14	7,4
S502/305	152	105	50,4	33,4	22,4	18,2	9,7
S502/375	187	128	61,7	41	27,3	22,4	11,9
S502/425	215	144	69	46,8	31,2	25,6	13,6
S502/495	246	170	80	53	35,6	29,6	15,7
S502/515	272	183	88,4	60,2	41,5	34,6	18,50
S502/565	291	202	97,8	66,6	45,9	38,3	20,40
S502/625	317	221	108	73,6	50,7	42,4	22,60

End of discharge voltage 1.90 V/Cell							
Products	30mn	1h	3h	5h	8h	10h	20h
S512/17	13,0	8,4	3,6	2,5	1,6	1,3	0,7
S512/24	18,7	11,7	5,5	3,5	2,3	1,9	1,0
S512/25	19,8	12,4	5,7	3,6	2,4	2,0	1,1
S512/38	28,6	17,7	8,3	5,5	3,6	3,1	1,7
S512/50	40,4	25,9	10,5	7,5	4,9	4,2	2,3
S512/60	50,2	29,3	13,4	8,9	5,8	4,8	2,6
S512/90	65,0	41,4	18,7	12,3	8,6	7,6	4,0
S506/105	93,7	58,2	24,5	16,5	10,9	9,5	4,9
S506/130	101	63	27,6	18,5	12,2	10,6	5,6
S506/185	144	89,6	36,8	24,1	16,5	15,2	8,1
S502/235	165	108	48,4	33,2	22,5	18,6	9,55
S502/305	215	142	63	43,4	29,4	24,3	12,5
S502/375	266	173	77,3	53,3	36,1	29,9	15,3
S502/425	306	198	89,1	61,2	41,4	34,3	17,6
S502/495	349	230	102	70,3	47,7	39,5	20,2
S502/515	352	228	109	72,6	49,4	41,0	21,80
S502/565	379	250	120	80,3	54,7	45,3	24,10
S502/625	414	276	133	88,8	60,5	50,1	26,70

End of discharge voltage 1.85 V/Cell							
Products	30mn	1h	3h	5h	8h	10h	20h
S512/17	14,8	9,4	4,0	2,7	1,7	1,4	0,7
S512/24	20,8	13,0	6,1	3,9	2,5	2,1	1,1
S512/25	22,4	13,8	6,2	3,9	2,6	2,1	1,1
S512/38	31,5	19,7	9,3	6,0	3,9	3,3	1,8
S512/50	45,3	28,1	12,0	8,2	5,4	4,4	2,4
S512/60	56,1	33,1	14,9	9,7	6,3	5,2	2,8
S512/90	72,9	46,3	20,7	13,6	9,3	8,0	4,2
S506/105	103	64,6	27,5	18,2	12,1	10,0	5,3
S506/130	111	69,9	30,9	20,5	13,6	11,2	5,9
S506/185	163	98,5	40,4	27,4	18,5	16,0	8,5
S502/235	198	126	53,3	36,5	24,6	20,3	10,8
S502/305	255	162	70	47,6	32,2	26,5	14,1
S502/375	321	202	85,5	58,5	39,5	32,6	17,4
S502/425	362	232	98,5	67,4	45,4	37,6	20
S502/495	414	263	113	77,2	51,8	43	22,9
S502/515	419	264	121	80,5	54,4	45,0	24,30
S502/565	452	289	133	89,0	60,2	49,8	26,80
S502/625	499	321	148	98,4	66,6	55,1	29,60

End of discharge voltage 1.80 V/Cell							
Products	30mn	1h	3h	5h	8h	10h	20h
S512/17	15,8	10,1	4,4	2,8	1,8	1,5	0,8
S512/24	22,2	13,7	6,5	4,0	2,6	2,2	1,1
S512/25	24,3	14,7	6,7	4,1	2,7	2,2	1,2
S512/38	35,5	21,5	10,0	6,4	4,1	3,4	1,8
S512/50	50,2	30,0	13,4	8,6	5,6	4,6	2,5
S512/60	60,6	35,9	15,8	10,3	6,7	5,5	2,9
S512/90	78,8	49,0	21,6	14,3	9,8	8,4	4,4
S506/105	111	67,3	29,5	19,1	12,5	10,3	5,5
S506/130	120	72,9	33,2	21,5	14,1	11,6	6,1
S506/185	176	104	43,5	28,8	19,4	16,7	8,9
S502/235	222	136	57,4	38,6	26	21,5	11,5
S502/305	285	176	75	50,4	33,7	28	14,9
S502/375	356	220	92	61,9	41,6	34,5	18,3
S502/425	406	250	106	70,6	48,1	40	21,2
S502/495	463	286	121	81,7	54,9	45,5	24,2
S502/515	466	291	127	84,3	56,8	47,0	25,35
S502/565	512	320	141	93,3	62,8	52,0	27,95
S502/625	568	354	156	103	69,4	57,5	30,90

End of discharge voltage 1.75 V/Cell							
Products	30mn	1h	3h	5h	8h	10h	20h
S512/17	16,5	10,3	4,5	2,9	1,9	1,6	0,8
S512/24	23,2	14,1	6,6	4,1	2,7	2,3	1,2
S512/25	25,3	14,9	6,8	4,2	2,8	2,3	1,2
S512/38	36,4	22,0	10,2	6,5	4,2	3,5	1,9
S512/50	52,2	30,5	13,7	8,8	5,7	4,7	2,5
S512/60	63,5	37,7	16,3	10,5	6,9	5,7	3,0
S512/90	80,8	50,2	22,3	14,7	10,0	8,6	4,5
S506/105	117	70,0	30,5	19,5	12,8	10,6	5,7
S506/130	126	75,8	34,3	22,0	14,4	11,9	6,3
S506/185	184	108	44,8	29,6	19,9	17,1	9,1
S502/235	235	142	59,5	39,6	26,6	21,7	11,7
S502/305	305	184	78	51,7	34,7	28,3	15,2
S502/375	380	230	95,5	63,6	42,4	34,8	18,7
S502/425	429	262	110	72,6	48,7	40,3	21,2
S502/495	495	299	126	83,9	56	46	24,7
S502/515	503	305	130	85,7	57,4	47,4	25,75
S502/565	555	337	144	94,8	63,5	52,4	28,25
S502/625	606	372	159	104	70,0	57,9	31,25

End of discharge voltage 1.70 V/Cell							
Products	30mn	1h	3h	5h	8h	10h	20h
S512/17	17,0	10,5	4,6	3,0	1,9	1,6	0,8
S512/24	24,2	14,3	6,7	4,2	2,8	2,3	1,2
S512/25	26,1	15,1	6,9	4,3	2,9	2,4	1,2
S512/38	37,4	22,4	10,3	6,6	4,3	3,6	1,9
S512/50	53,7	31,0	13,9	8,9	5,8	4,8	2,6
S512/60	65,5	38,6	16,7	10,6	7,0	5,8	3,1
S512/90	82,7	51,5	22,9	15,1	10,1	8,7	4,6
S506/105	121	70,9	31,2	19,9	13,0	10,8	5,8
S506/130	131	76,8	35,1	22,4	14,6	12,1	6,5
S506/185	189	110	45,6	30,2	20,3	17,5	9,3
S502/235	245	147	61,2	40,1	25,8	21,8	11,8
S502/305	318	189	80	52,4	35	28,4	15,3
S502/375	394	234	98,5	64,4	43	35,0	18,8
S502/425	448	270	113	74,2	49,1	40,5	21,8
S502/495	516	307	130	85	56,5	46,2	24,9
S502/515	528	314	133	86,7	57,9	47,6	25,90
S502/565	580	347	146	95,9	64,1	52,7	28,50
S502/625	635	383	162	106	70,9	58,3	31,45

Powerfit S 500

Rapid determination tables constant power (in W/monoblocs) at 20°C.

End of discharge voltage 1.85 V/Cell							
Products	5mn	10mn	15mn	20mn	30mn	45mn	1h
S512/17	464	337	266	221	172	134	111
S512/24	666	483	381	318	245	187	154
S512/25	721	521	413	343	263	202	164
S512/38	1010	736	589	491	376	287	236
S512/50	1434	1048	833	695	535	405	332
S512/60	1880	1369	1081	890	662	485	393
S512/90	1812	1482	1244	1084	846	656	548
S506/105	1470	1165	941	783	605	468	382
S506/130	1593	1262	1019	848	655	503	414
S506/185	1980	1652	1393	1214	955	721	587
S502/235	800	663	567	493	396	310	256
S502/305	1005	835	710	622	510	402	325
S502/375	1295	1070	910	796	639	501	413
S502/425	1440	1195	1015	888	714	559	462
S502/495	1580	1315	1130	992	810	630	520
S502/515	1480	1255	1080	955	770	599	496
S502/565	1570	1340	1160	1030	840	657	545
S502/625	1650	1420	1245	1105	907	719	599

End of discharge voltage 1.80 V/Cell							
Products	5mn	1 0mn	15mn	20mn	30mn	45mn	1h
S512/17	539	380	294	241	185	144	120
S512/24	770	546	421	345	261	196	162
S512/25	832	588	452	372	282	213	173
S512/38	1177	842	654	540	409	308	253
S512/50	1672	1192	927	766	579	435	353
S512/60	2096	1500	1179	963	707	517	420
S512/90	2169	1691	1393	1184	915	699	579
S506/105	1738	1330	1044	859	649	487	399
S506/130	1882	1441	1131	931	703	528	432
S506/185	2318	1871	1543	1323	1024	765	617
S502/235	930	752	626	538	425	326	265
S502/305	1195	962	798	687	545	418	343
S502/375	1507	1217	1010	869	684	528	428
S502/425	1672	1357	1127	971	765	590	478
S502/495	1870	1505	1275	1098	868	674	560
S502/515	1780	1470	1240	1080	855	657	540
S502/565	1875	1565	1330	1170	936	722	594
S502/625	1985	1675	1430	1260	1015	790	652

End of discharge voltage 1.75 V/Cell							
Products	5mn	10mn	15mn	20mn	30mn	45mn	1h
S512/17	580	404	309	253	193	148	122
S512/24	835	579	444	362	272	201	164
S512/25	901	625	479	394	293	218	175
S512/38	1281	895	695	568	426	315	257
S512/50	1809	1269	982	806	601	447	359
S512/60	2254	1599	1245	1011	741	544	439
S512/90	2448	1812	1453	1223	944	719	596
S506/105	1909	1413	1107	904	685	501	407
S506/130	2069	1531	1200	979	738	543	441
S506/185	2531	2009	1631	1393	1071	798	642
S502/235	1030	812	672	571	448	340	275
S502/305	1330	1045	860	732	573	436	354
S502/375	1668	1315	1085	918	720	547	443
S502/425	1855	1470	1210	1028	816	612	497
S502/495	2100	1665	1370	1170	925	702	575
S502/515	2035	1645	1375	1185	928	705	573
S502/565	2155	1760	1490	1290	1016	774	630
S502/625	2290	1880	1615	1390	1110	848	692

End of discharge voltage 1.70 V/Cell							
Products	5mn	10mn	15mn	20mn	30mn	45mn	1h
S512/17	614	420	318	260	198	150	123
S512/24	887	606	459	376	279	206	166
S512/25	957	654	497	405	300	221	177
S512/38	1357	936	719	588	433	319	260
S512/50	1925	1324	1015	833	618	453	364
S512/60	2382	1664	1278	1036	754	557	449
S512/90	2689	1911	1502	1244	954	729	604
S506/105	2028	1477	1146	936	694	508	414
S506/130	2197	1600	1241	1014	752	551	448
S506/185	2736	2129	1701	1432	1084	806	649
S502/235	1115	859	702	594	458	349	282
S502/305	1430	1106	908	768	590	449	364
S502/375	1789	1387	1142	961	732	560	450
S502/425	2005	1547	1278	1075	826	627	510
S502/495	2265	1770	1450	1230	950	717	585
S502/515	2220	1765	1455	1245	962	724	586
S502/565	2350	1890	1575	1350	1055	797	645
S502/625	2515	2035	1705	1475	1154	876	710

End of discharge voltage 1.65 V/Cell							
Products	5mn	10mn	15mn	20mn	30mn	45mn	1h
S512/17	636	428	324	266	202	152	125
S512/24	919	622	467	381	282	208	168
S512/25	992	670	505	413	306	223	178
S512/38	1407	956	732	596	439	323	263
S512/50	1992	1357	1037	844	623	456	367
S512/60	2482	1703	1303	1055	766	563	454
S512/90	2924	2009	1543	1264	965	739	612
S506/105	2088	1515	1165	955	700	513	418
S506/130	2262	1641	1262	1034	758	556	453
S506/185	2915	2182	1740	1452	1095	812	654
S502/235	1180	902	728	612	469	355	286
S502/305	1525	1162	938	782	600	455	371
S502/375	1890	1445	1166	980	742	568	455
S502/425	2130	1625	1310	1095	840	637	520
S502/495	2415	1850	1497	1260	965	728	596
S502/515	2365	1835	1495	1270	982	737	595
S502/565	2515	1985	1635	1400	1080	810	654
S502/625	2685	2140	1785	1535	1186	892	720

End of discharge voltage 1.60 V/Cell							
Products	5mn	10mn	15mn	20mn	30mn	45mn	1h
S512/17	647	436	325	270	205	154	126
S512/24	937	631	473	386	285	209	169
S512/25	1011	681	512	418	308	224	178
S512/38	1431	969	739	601	443	327	265
S512/50	2030	1379	1044	855	628	458	369
S512/60	2561	1730	1320	1068	779	570	459
S512/90	3024	2060	1576	1283	975	747	617
S506/105	2113	1540	1182	961	706	516	421
S506/130	2289	1669	1281	1041	765	558	455
S506/185	3014	2228	1773	1463	1104	816	657
S502/235	1240	928	752	624	477	358	290
S502/305	1600	1190	960	800	610	460	375
S502/375	2005	1490	1205	1000	760	573	465
S502/425	2235	1670	1355	1130	860	643	525
S502/495	2535	1915	1535	1285	980	736	600
S502/515	2450	1885	1550	1305	1000	748	602
S502/565	2625	2055	1685	1430	1098	822	662
S502/625	2800	2220	1840	1565	1205	905	729

These tables indicate the current (in Amperes) or power (in Watts/monoblock batteries) which can be released at a temperature of 20°C by cells or monoblock batteries over the given ranges and at various voltages. The technical data in these tables is general and may vary depending on the state of the battery.

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