Sprinter Pure Power

Preliminary technical data sheet

Technical features:

- Design life: >12 years at 20 °C (until 80% nominal C_{10})
- Maintenance-free (no topping up) during the whole service life
- High-compression Absorbent Glass Mat (AGM) technology
- Power (10 minutes) from 1978 to 5006 watt
- Standard or flame-retardant version (UL 94 V-0)
- Pure Lead
- Very low gassing due to internal gas recombination (99% efficiency)

Standards & certifications:

- EUROBAT 2015 classification: >12 years – Very Long life
- No restrictions for rail, road, sea, and air transportation (IATA, DGR clause A67) – trouble-free transportation of operational blocks
- Approval: UL (Underwriters Laboratories)
- Designed in accordance with IEC 60896-21/22
- Manufactured in Europe in our ISO 9001 certified production plants



Design life >12 years – very long life



Nominal capacity 56.4-195 Ah



Block battery



Grid plate



Recyclable



Valve regulated lead-acid batteries



Maintenance free (no topping up)



Special high current performance

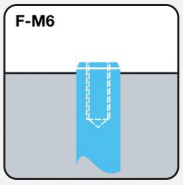
Technical characteristics and data

Type	Part number	Nom. voltage	Power 10 min	Nominal capacity		Length	Width	Height	Weight	Internal resistance	Short circuit current	Terminal
		V	1.60 Vpc 25 °C	C_{10} 1.80 Vpc 25 °C	C_{20} 1.75 Vpc 25 °C	(l)	(w)	(h)	approx. kg	mOhm*	A*	
			W/block	Ah	Ah	max. mm	max. mm	max. mm				
S6V3100PP	NAPP063100HP0FA	6	2989	195	208	309	172	223	30.5	1,42	4358	F-M6
S12V2000PP	NAPP122000HP0FA	12	1978	56.4	60.8	220	172	219	21	7,29	1714	F-M6
S12V2800PP	NAPP122800HP0FA	12	2695	69.5	75.6	262	172	223	26	5,58	2251	F-M6
S12V3400PP	NAPP123400HP0FA	12	3344	92.8	99.6	309	172	223	31	4,71	2640	F-M6
S12V3800PP	NAPP123800HP0FA	12	3740	105	112	351	172	223	35.5	4,05	3044	F-M6
S12V4500PP	NAPP124500HP0FA	12	4305	120	126	351	172	275	43.6	3,80	3270	F-M6
S12V5200PP	NAPP125200HP0FA	12	5006	140	148	351	172	275	46.6	3,41	3629	F-M6

* According to IEC 60896-21/22

Container, terminal and torque

Standard polypropylene (PP) according to UL 94 HB or flame-retardant polypropylene (PP) according to UL 94 V-0. Change **H** to **V** in the part number for UL 94 V-0 version.



11 Nm

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Sprinter®

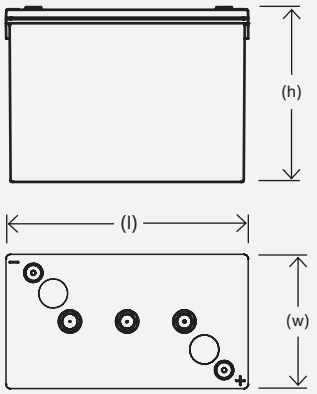
ENERGIZING A NEW WORLD

Sprinter Pure Power

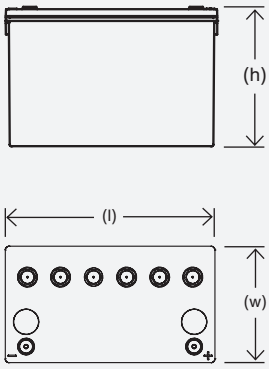
Technical data sheet

Drawings

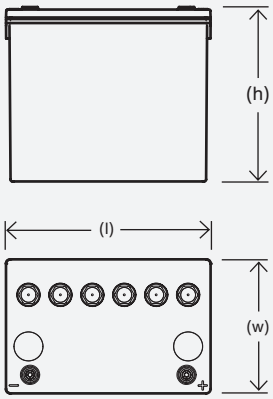
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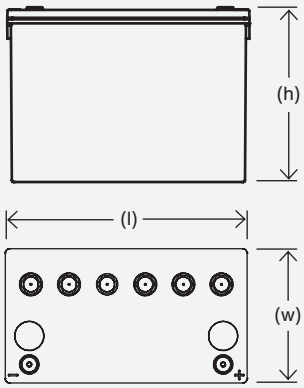
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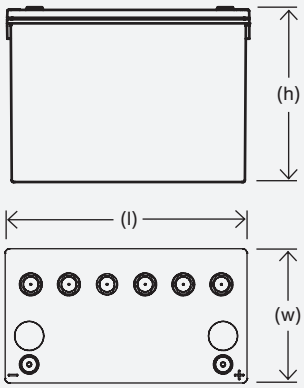
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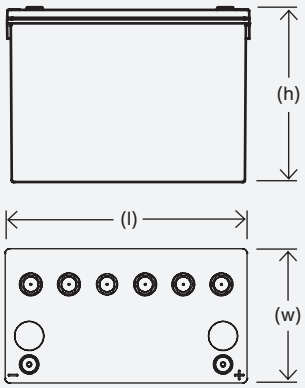
S12V3400PP



S12V3800PP



S12V4500PP
S12V5200PP



Not to scale!

Sprinter Pure Power

Constant current discharge

1.80 Vpc – Discharge in A at 25 °C

Type	Part number	1 min	2 min	3 min	5 min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
S6V3100PP	NAPP063100HP0FA	587	556	522	497	440	360	306	231	167	132	77.3	56.0	36.4	23.6	19.5
S12V2000PP	NAPP122000HP0FA	243	228	215	219	147	113	95	71	52	40	22.6	16.3	10.6	6.83	5.64
S12V2800PP	NAPP122800HP0FA	317	298	279	260	189	151	123	92	66	52	27.6	18.8	12.1	8.00	6.95
S12V3400PP	NAPP123400HP0FA	381	357	327	312	229	191	161	121	88	67	37.8	27.4	17.5	11.4	9.28
S12V3800PP	NAPP123800HP0FA	423	400	381	334	258	205	172	138	100	76	43.0	30.3	19.5	12.8	10.5
S12V4500PP	NAPP124500HP0FA	432	414	397	357	294	246	215	166	123	96	52.1	37.0	23.2	15.1	12.0
S12V5200PP	NAPP125200HP0FA	497	476	457	410	342	277	245	189	139	110	59.9	42.5	26.7	17.3	14.0

1.75 Vpc – Discharge in A at 25 °C

S6V3100PP	NAPP063100HP0FA	667	661	625	568	468	391	333	248	179	138	78.6	57.0	37.0	24.0	19.9
S12V2000PP	NAPP122000HP0FA	291	272	253	241	162	123	101	75	53	42	23.4	16.9	11.0	6.94	5.75
S12V2800PP	NAPP122800HP0FA	399	365	338	310	213	166	134	99	69	53	28.5	19.5	12.4	8.20	7.07
S12V3400PP	NAPP123400HP0FA	480	439	353	353	258	211	176	129	94	70	38.6	27.8	17.8	11.5	9.41
S12V3800PP	NAPP123800HP0FA	521	477	441	384	285	229	190	149	105	79	44.2	30.9	20.0	13.0	10.7
S12V4500PP	NAPP124500HP0FA	510	479	449	405	327	273	234	176	129	100	54.3	38.0	24.0	15.4	12.3
S12V5200PP	NAPP125200HP0FA	586	551	516	465	381	313	269	200	147	114	62.4	43.7	27.6	17.7	14.3

1.70 Vpc – Discharge in A at 25 °C

S6V3100PP	NAPP063100HP0FA	798	749	691	643	499	418	350	261	186	141	80.0	58.0	37.6	24.4	20.0
S12V2000PP	NAPP122000HP0FA	346	309	279	260	172	130	108	77	55	43	24.0	17.2	11.2	7.05	5.86
S12V2800PP	NAPP122800HP0FA	439	399	370	348	226	172	140	103	71	54	29.0	20.0	12.7	8.30	7.14
S12V3400PP	NAPP123400HP0FA	528	475	393	391	275	220	180	134	95	72	39.1	28.1	17.9	11.6	9.49
S12V3800PP	NAPP123800HP0FA	615	558	505	430	315	246	202	153	108	81	44.8	31.5	20.2	13.2	10.8
S12V4500PP	NAPP124500HP0FA	582	556	511	441	364	287	248	183	132	100	54.8	38.4	24.2	15.7	12.5
S12V5200PP	NAPP125200HP0FA	676	629	584	507	418	329	279	211	152	115	63.0	44.1	27.8	18.0	14.6

1.65 Vpc – Discharge in A at 25 °C

S6V3100PP	NAPP063100HP0FA	873	821	764	717	539	439	366	266	188	143	80.8	58.6	38.1	24.8	20.1
S12V2000PP	NAPP122000HP0FA	382	346	306	279	182	135	109	79	56	44	24.3	17.4	11.3	7.10	5.86
S12V2800PP	NAPP122800HP0FA	481	438	390	370	232	176	143	104	73	55	29.5	20.3	12.8	8.40	7.18
S12V3400PP	NAPP123400HP0FA	589	532	429	421	286	226	184	136	96	72	39.4	28.3	18.0	11.7	9.56
S12V3800PP	NAPP123800HP0FA	688	621	554	473	337	261	212	156	110	82	45.3	32.0	20.4	13.4	10.9
S12V4500PP	NAPP124500HP0FA	665	608	568	489	378	310	255	189	140	105	56.6	39.8	25.1	16.2	13.0
S12V5200PP	NAPP125200HP0FA	763	696	650	558	450	356	292	222	160	121	65.1	45.7	28.8	18.6	15.1

1.60 Vpc – Discharge in A at 25 °C

S6V3100PP	NAPP063100HP0FA	924	891	842	791	573	462	374	269	190	144	81.7	59.2	38.5	24.9	20.2
S12V2000PP	NAPP122000HP0FA	417	376	317	295	189	141	111	80	57	44	24.5	17.6	11.3	7.10	5.86
S12V2800PP	NAPP122800HP0FA	522	470	406	389	240	181	145	106	75	56	30.0	20.6	12.9	8.50	7.20
S12V3400PP	NAPP123400HP0FA	627	564	459	443	295	231	188	139	97	73	39.7	28.5	18.2	11.8	9.61
S12V3800PP	NAPP123800HP0FA	731	676	616	519	355	270	216	160	113	84	45.8	32.3	20.6	13.5	11.0
S12V4500PP	NAPP124500HP0FA	710	645	605	524	391	318	259	192	141	106	57.2	40.2	25.4	16.4	13.2
S12V5200PP	NAPP125200HP0FA	816	738	692	614	466	366	298	227	163	122	65.7	46.2	29.2	18.9	15.3

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Constant power discharge

1.80 Vpc – Discharge in W/block at 25 °C

Type	Part number	1 min	2 min	3 min	5 min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
S6V3100PP	NAPP063100HP0FA	3575	3300	3025	2885	2552	2096	1774	1344	971	758	448	325	208	136	111
S12V2000PP	NAPP122000HP0FA	2860	2684	2508	2537	1709	1311	1097	852	612	459	262	190	121	82.1	66.1
S12V2800PP	NAPP122800HP0FA	3738	3507	3278	3048	2222	1774	1451	1075	754	605	325	234	145	96.3	78.1
S12V3400PP	NAPP123400HP0FA	4485	4197	3933	3657	2640	2258	1881	1419	1042	786	450	328	210	136	111
S12V3800PP	NAPP123800HP0FA	4984	4704	4469	3920	2992	2419	2073	1613	1194	905	505	358	225	145	118
S12V4500PP	NAPP124500HP0FA	4905	4709	4483	3979	3323	2861	2502	1929	1422	1078	590	406	255	165	134
S12V5200PP	NAPP125200HP0FA	5691	5463	5202	4616	3782	3256	2848	2196	1618	1251	685	471	296	192	155

1.75 Vpc – Discharge in W/block at 25 °C

S6V3100PP	NAPP063100HP0FA	4125	3850	3575	3225	2644	2215	1881	1408	1013	775	455	332	212	138	113
S12V2000PP	NAPP122000HP0FA	3300	3080	2860	2730	1827	1387	1161	895	638	479	271	196	124	83.2	67.3
S12V2800PP	NAPP122800HP0FA	4600	4197	3852	3542	2442	1892	1547	1140	782	632	337	244	148	97.5	79.0
S12V3400PP	NAPP123400HP0FA	5520	5060	4715	4025	2948	2430	1994	1494	1071	807	457	331	211	138	112
S12V3800PP	NAPP123800HP0FA	5992	5488	5033	4365	3274	2618	2206	1686	1233	932	525	367	232	148	120
S12V4500PP	NAPP124500HP0FA	5788	5413	5074	4577	3695	3107	2678	2017	1469	1110	613	417	263	169	136
S12V5200PP	NAPP125200HP0FA	6715	6226	5831	5255	4305	3537	3048	2296	1672	1288	712	484	305	196	158

1.70 Vpc – Discharge in W/block at 25 °C

S6V3100PP	NAPP063100HP0FA	4400	4125	3850	3494	2752	2300	1924	1441	1029	789	463	338	216	140	114
S12V2000PP	NAPP122000HP0FA	3817	3410	3124	2881	1892	1430	1193	919	653	488	276	199	129	84.3	68.4
S12V2800PP	NAPP122800HP0FA	5060	4600	4197	3830	2563	1956	1587	1161	794	641	346	249	150	98.3	79.2
S12V3400PP	NAPP123400HP0FA	6072	5463	4980	4347	3069	2483	2039	1527	1081	818	462	334	214	139	114
S12V3800PP	NAPP123800HP0FA	6899	6250	5656	4789	3461	2704	2258	1709	1251	945	530	371	234	151	122
S12V4500PP	NAPP124500HP0FA	6525	6113	5652	4867	4056	3206	2737	2046	1490	1126	620	421	265	172	139
S12V5200PP	NAPP125200HP0FA	7457	6986	6460	5562	4616	3649	3115	2328	1696	1306	719	488	308	199	161

1.65 Vpc – Discharge in W/block at 25 °C

S6V3100PP	NAPP063100HP0FA	4675	4400	4125	3763	2881	2365	1957	1462	1049	806	469	343	220	143	116
S12V2000PP	NAPP122000HP0FA	4136	3740	3392	2999	1946	1451	1204	933	660	496	279	202	130	84.3	68.4
S12V2800PP	NAPP122800HP0FA	5290	4830	4433	3956	2640	1989	1614	1182	807	645	348	250	151	98.8	80.2
S12V3400PP	NAPP123400HP0FA	6486	5865	5320	4611	3157	2505	2052	1537	1092	825	465	336	216	139	114
S12V3800PP	NAPP123800HP0FA	7370	6664	6045	5134	3630	2790	2311	1742	1274	960	535	376	237	153	124
S12V4500PP	NAPP124500HP0FA	7170	6525	6102	5256	4208	3354	2785	2101	1556	1173	641	438	276	178	144
S12V5200PP	NAPP125200HP0FA	8195	7457	6974	6007	4839	3817	3170	2392	1771	1361	744	508	320	207	167

1.60 Vpc – Discharge in W/block at 25 °C

S6V3100PP	NAPP063100HP0FA	4950	4675	4400	4031	2989	2419	1989	1484	1061	819	474	348	222	144	117
S12V2000PP	NAPP122000HP0FA	4400	3960	3608	3085	1978	1473	1226	944	669	503	283	202	130	84.3	68.4
S12V2800PP	NAPP122800HP0FA	5750	5175	4715	4117	2695	2010	1630	1193	812	648	349	253	153	99.4	80.2
S12V3400PP	NAPP123400HP0FA	6900	6210	5658	4807	3344	2526	2058	1548	1102	830	466	337	217	141	115
S12V3800PP	NAPP123800HP0FA	7840	7056	6429	5432	3740	2838	2349	1768	1293	970	540	379	240	154	126
S12V4500PP	NAPP124500HP0FA	7571	6971	6503	5597	4305	3394	2834	2150	1580	1186	647	442	279	180	147
S12V5200PP	NAPP125200HP0FA	8763	7967	7431	6396	5006	3929	3226	2447	1798	1376	751	513	324	209	170

Subject to alterations

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