

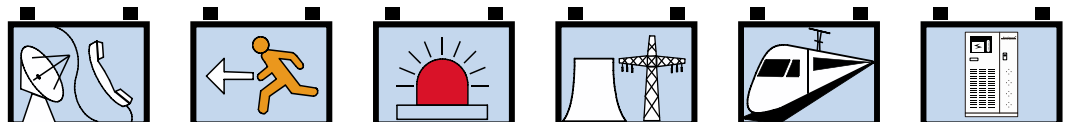


EverExceed®
power your applications

Ultra-low Maintenance Gas Recombination NiCd Battery



**»Premium quality for
uninterrupted communication«**



www.everexceed.com



**ULTRA-HIGH RELIABILITY
ULTRA-LOW MAINTENANCE**

EverExceed SPL series is a powerful combination of proven pocket-plate construction and advanced design from the world leader in industrial nickel-cadmium battery technology. With a 20-year life and ultra-low maintenance requirements, EverExceed SPL series has become the cost-effective first choice – worldwide – for trouble-free standby power in the most demanding applications.

More Reliable

SPL series can continue to supply power for 20 years or more thanks to its corrosion free construction and EverExceed's tried and tested pocket-plate technology. No physical plate degradation and no sudden death with resulting costly downtime

Low life-cycle Cost

The cost of ownership of a battery system can be calculated across three distinct phases: the initial investment, including the cost of purchase and installation; on-going maintenance costs, including unexpected and expensive downtime periods; finally, the battery replacement costs, which include the expense of disposal as well as renewal. SPL series is the most cost-effective solution for any application – onshore or offshore – where long battery life, low maintenance costs, resistance to corrosion and total reliability are prime operating requirements.

More Adaptable

Offshore oil and gas, emergency lighting, fire and security, telecoms, utilities, photovoltaics. You can depend upon SPL series for perfect peace of mind.

No Water Filling

No water filling is necessary during the SPL series 20-year service life because of the controlled recombination and the valve regulated venting system (topping-up is possible if required).

More Durable

SPL series will survive treatment which would destroy lead acid batteries. This battery accepts ripple currents up to 0.2 C5 A and can be over-discharged or reversed without damage. Prolonged abusive overcharge can easily be compensated by refurbishment with water.

More Environmentally Tolerant

SPL series performs in the most severe conditions and can operate over a temperature range from 0°C to +40°C (+32°F to +104°F). It can survive extremes of temperature from as low as -50°C to as high as +70°C (-58°F to as high as +158°F).

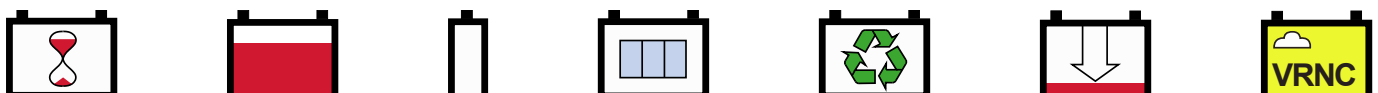
More Manageable

Compact and lightweight, SPL series is easy to transport and install. It can be stored for one year without need of refresher charges.

Float-corrected Data

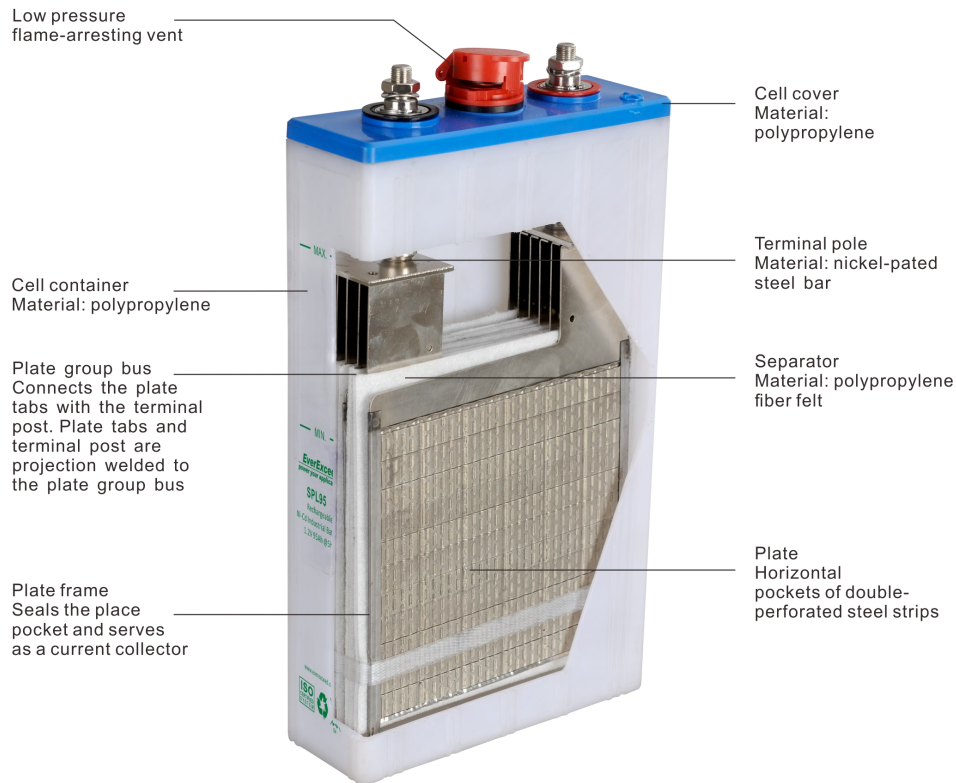
Many nickel-cadmium batteries are used in stationary standby power applications where discharges occur infrequently and the battery is continuously charged by a float or constant potential charge. Under these circumstances there is a modification in the level of the discharge curve and allowances must be made for this when dimensioning the battery.

In order to simplify this process, the data EverExceed supplies in this publication takes into account this phenomenon. The data published by EverExceed is the performance after prolonged floating and it can be used directly to perform the battery calculation. This phenomenon occurs with all nickel cadmium batteries, but some other manufacturers of nickel-cadmium batteries may not take this effect into account in published data.



Ultra-low Maintenance Gas Recombination NiCd Battery

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power your applications



Meeting International Standards

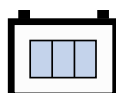
EverExceed batteries are manufactured under a strict ISO 9001 regime. Highest quality materials and rigorous quality checking procedures ensure all relevant international standards are met, including IEC 60623-2001, IEC 62259-2003.

Technology Superiority

- ☑ The electrode use steel tape as the framework. No react with electrolyte and remain complete during the whole service life.
- ☑ The separator is made of polypropylene fiber felt.
- ☑ No electrolyte replacement within service life.
- ☑ Terminals are made of steel or copper which has excellent electric conductivity and high mechanical strength.
- ☑ Battery case is made of high strength, corrosion resisting, translucent engineering plastics.
- ☑ No sudden death risk.
- ☑ Gas recombination efficiency can reach 85%~95%.
- ☑ Ultra high gas recombination efficiency, which reduces 90% water consumption.

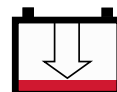
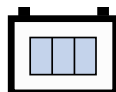
Application

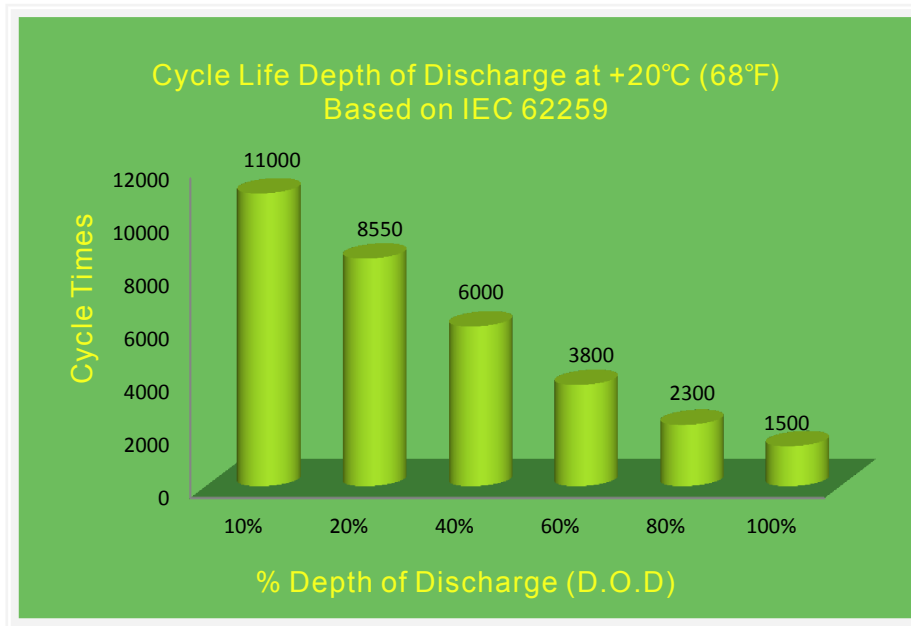
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|-----------------------------|-------------------|----------------------|---------------------|
| ☑ Offshore oil and gas | ☑ Process control | ☑ Telecommunications | ☑ Wind/Solar energy |
| ☑ Fire and security systems | ☑ Switchgear | ☑ Mass transit | ☑ UPS |
| ☑ Railway signaling | | | |



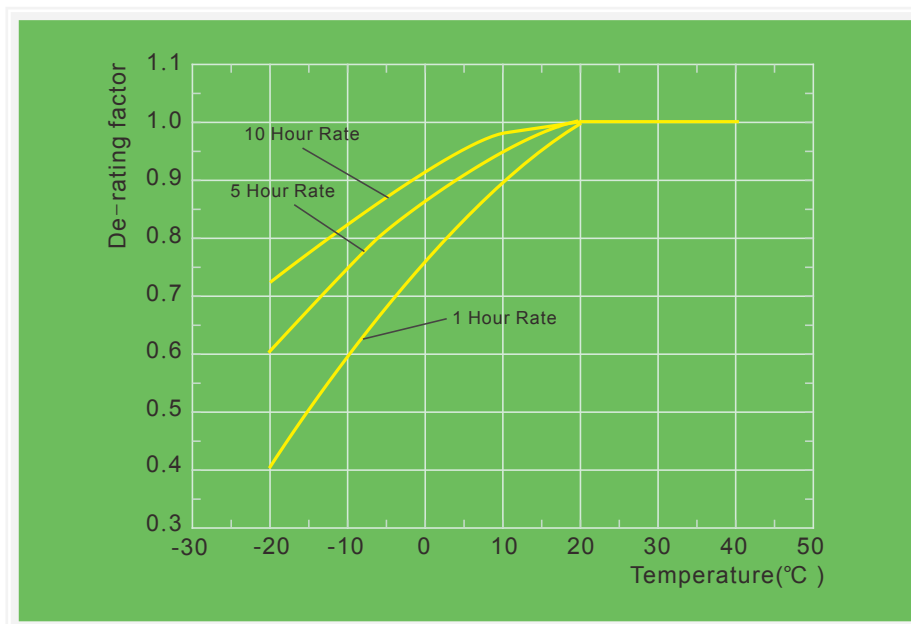
SPL Series Electrical Specifications & Dimensions

Cell Type	Nominal Voltage (V)	Capacity (C ₅ Ah)	Max. External Dimensions (mm/inch)						Max. Weight (kg/lb.)		Electrolyte Volume (L)	Terminal	Container Material
			Length		Width		Height						
SPL30	1.2	30	68	2.68	134	5.28	245	9.65	2.8	6.17	0.8	M10x1	ABS or PP
SPL40	1.2	40	68	2.68	134	5.28	245	9.65	3	6.62	0.8	M10x1	ABS or PP
SPL50	1.2	50	68	2.68	134	5.28	245	9.65	3	6.62	0.7	M10x1	ABS or PP
SPL60	1.2	60	70	2.76	134	5.28	285	11.2	4.2	9.26	0.8	M16	ABS or PP
SPL70	1.2	70	70	2.76	134	5.28	285	11.2	4.2	9.26	0.6	M16	ABS or PP
SPL80	1.2	80	80	3.15	141	5.55	365	14.4	5.8	12.8	1.7	M10x1	PP
SPL90	1.2	90	80	3.15	141	5.55	365	14.4	5.8	12.8	1.7	M10x1	PP
SPL95	1.2	95	68	2.68	190	7.48	345	13.6	5.8	12.8	0.8	M10x1	PP
SPL100	1.2	100	80	3.15	141	5.55	365	14.4	6.2	13.7	1.6	M10x1	PP
SPL110	1.2	110	80	3.15	141	5.55	365	14.4	6.4	14.1	1.4	M10x1	PP
SPL120	1.2	120	80	3.15	141	5.55	365	14.4	6.4	14.1	1.3	M10x1	PP
SPL130	1.2	130	80	3.15	141	5.55	365	14.4	6.5	14.3	1.2	M10x1	PP
SPL140	1.2	140	106	4.17	164	6.46	345	13.6	9	19.8	2.1	M20	ABS or PP
SPL150	1.2	150	106	4.17	164	6.46	345	13.6	9	19.8	2.5	M20	ABS or PP
SPL160	1.2	160	106	4.17	164	6.46	345	13.6	9.6	21.2	2	M20	ABS or PP
SPL170	1.2	170	106	4.17	164	6.46	345	13.6	9.7	21.4	1.8	M20	ABS or PP
SPL180	1.2	180	106	4.17	164	6.46	345	13.6	9.8	21.6	1.8	M20	ABS or PP
SPL190	1.2	190	106	4.17	164	6.46	345	13.6	9.9	21.8	1.8	M20	ABS or PP
SPL200	1.2	200	106	4.17	164	6.46	345	13.6	10	22.1	1.8	M20	ABS or PP
SPL250	1.2	250	164	6.46	167	6.57	345	13.6	13.6	30.0	3	M20	ABS or PP
SPL300	1.2	300	164	6.46	167	6.57	345	13.6	15	33.1	2.7	M20	ABS or PP
SPL350	1.2	350	152	5.98	170	6.69	385	15.2	17.4	38.4	2.8	M20	PP
SPL400	1.2	400	152	5.98	170	6.69	385	15.2	17.5	38.6	2.8	M20	PP
SPL450	1.2	450	138	5.43	276	10.9	450	17.7	24	52.9	4.4	2xM16	PP
SPL500	1.2	500	138	5.43	276	10.9	490	19.3	27	59.5	6.1	2xM16	PP
SPL550	1.2	550	176	6.93	291	11.5	510	20.1	37.5	82.7	8.4	2xM20	ABS
SPL600	1.2	600	176	6.93	291	11.5	510	20.1	38	83.8	9.2	2xM20	ABS

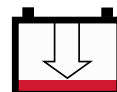
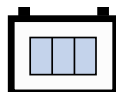


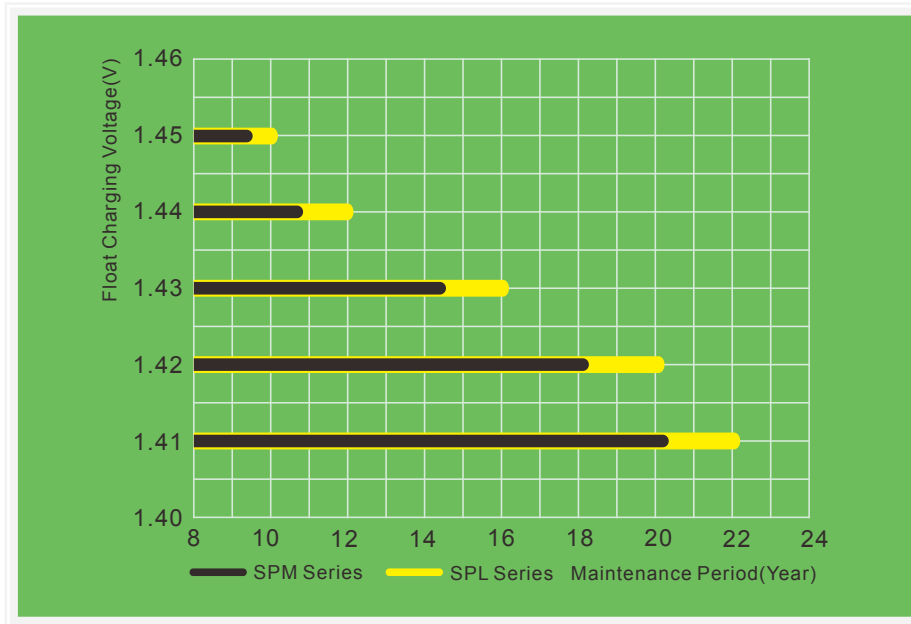


Deep of Discharge Curve of SPL Series

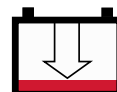
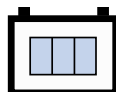
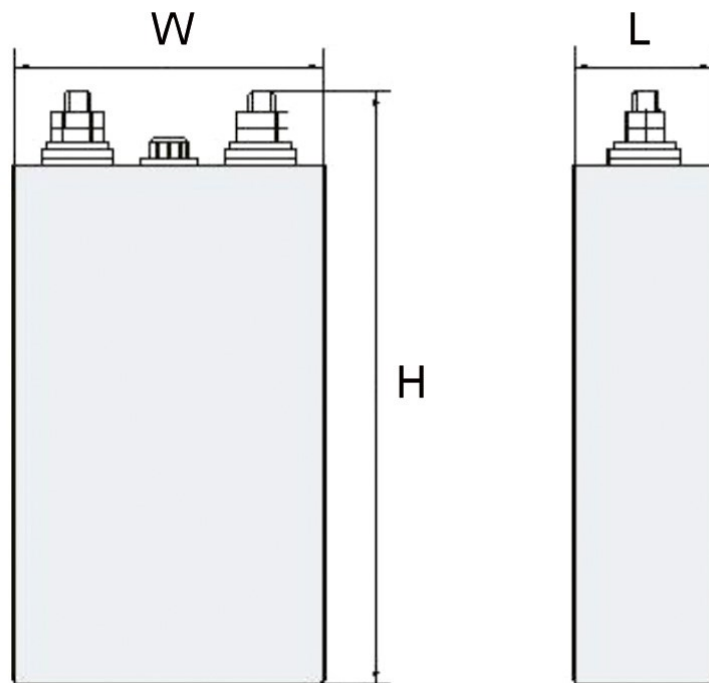


Temperature Effect Curves of SPL Series





Maintenance cycle of SPL series and SPM series battery under different float charging voltage(20°C)



Ultra-low Maintenance Gas Recombination NiCd Battery

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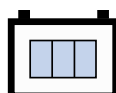
Cell Performance Data

Performance after prolonged float charge of fully charged cells

Available amperes at +20°C ±5°C(+68°F ±9°F)

Final voltage: 1.14 V/cell

Cell Type	Capacity (C ₅ Ah)	Discharge Time in Hours							Discharge Time in minutes					Time in Seconds			
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
SPL30	30	2.84	3.61	5.66	8.92	10.7	11.7	12.9	15.3	16.6	17.8	19.1	21.2	25.1	26.5	30.5	34
SPL40	40	3.79	4.81	7.55	11.9	14.3	15.6	17.2	20.4	22.1	23.7	25.5	28.3	33.5	35.3	40.7	45.3
SPL50	50	4.73	6.02	9.43	14.9	17.8	19.5	21.5	25.5	27.7	29.7	31.8	35.3	41.8	44.2	50.8	56.7
SPL60	60	5.68	7.22	11.3	17.8	21.4	23.4	25.8	30.6	33.2	35.6	38.2	42.4	50.2	53	61	68
SPL70	70	6.63	8.42	13.2	20.8	25	27.3	30.1	35.7	38.7	41.5	44.6	49.5	58.6	61.8	71.2	79.3
SPL80	80	7.57	9.63	15.1	23.8	28.5	31.2	34.4	40.8	44.3	47.5	50.9	56.5	66.9	70.7	81.3	90.7
SPL90	90	8.52	10.8	17	26.8	32.1	35.1	38.7	45.9	49.8	53.4	57.3	63.6	75.3	79.5	91.5	102
SPL95	95	8.99	11.4	17.9	28.2	33.9	37.1	40.9	48.5	52.6	56.4	60.5	67.1	79.5	83.9	96.6	108
SPL100	100	9.47	12	18.9	29.7	35.7	39	43	51	55.3	59.3	63.7	70.7	83.7	88.3	102	113
SPL110	110	10.4	13.2	20.8	32.7	39.2	42.9	47.3	56.1	60.9	65.3	70	77.7	92	97.2	112	125
SPL120	120	11.4	14.4	22.6	35.7	42.8	46.8	51.6	61.2	66.4	71.2	76.4	84.8	100	106	122	136
SPL130	130	12.3	15.6	24.5	38.7	46.4	50.7	55.9	66.3	71.9	77.1	82.8	91.9	109	115	132	147
SPL140	140	13.3	16.8	26.4	41.6	49.9	54.6	60.2	71.4	77.5	83.1	89.1	98.9	117	124	142	159
SPL150	150	14.2	18.1	28.3	44.6	53.5	58.5	64.5	76.5	83	89	95.5	106	126	133	153	170
SPL160	160	15.1	19.3	30.2	47.6	57.1	62.4	68.8	81.6	88.5	94.9	102	113	134	141	163	181
SPL170	170	16.1	20.5	32.1	50.5	60.6	66.3	73.1	86.7	94.1	101	108	120	142	150	173	193
SPL180	180	17	21.7	34	53.5	64.2	70.2	77.4	91.8	99.6	107	115	127	151	159	183	204
SPL190	190	18	22.9	35.8	56.5	67.8	74.1	81.7	96.9	105	113	121	134	159	168	193	215
SPL200	200	18.9	24.1	37.7	59.5	71.3	78	86	102	111	119	127	141	167	177	203	227
SPL210	210	19.9	25.3	39.6	62.4	74.9	81.9	90.3	107	116	125	134	148	176	186	214	238
SPL220	220	20.8	26.5	41.5	65.4	78.5	85.8	94.6	112	122	131	140	155	184	194	224	249
SPL230	230	21.8	27.7	43.4	68.4	82	89.7	98.9	117	127	136	146	163	192	203	234	261
SPL240	240	22.7	28.9	45.3	71.4	85.6	93.6	103	122	133	142	153	170	201	212	244	272
SPL250	250	23.7	30.1	47.2	74.3	89.2	97.5	108	128	138	148	159	177	209	221	254	283
SPL260	260	24.6	31.3	49.1	77.3	92.7	101	112	133	144	154	166	184	218	230	264	295
SPL270	270	25.6	32.5	50.9	80.3	96.3	105	116	138	149	160	172	191	226	239	275	306
SPL280	280	26.5	33.7	52.8	83.3	99.9	109	120	143	155	166	178	198	234	247	285	317
SPL290	290	27.5	34.9	54.7	86.2	103	113	125	148	160	172	185	205	243	256	295	329
SPL300	300	28.4	36.1	56.6	89.2	107	117	129	153	166	178	191	212	251	265	305	340
SPL310	310	29.3	37.3	58.5	92.2	111	121	133	158	172	184	197	219	259	274	315	351



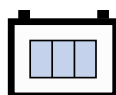
Cell Performance Data

Performance after prolonged float charge of fully charged cells

Available amperes at +20°C ±5°C(+68°F ±9°F)

Final voltage: 1.14 V/cell

Cell Type	Capacity (C ₅ Ah)	Discharge Time in Hours							Discharge Time in minutes					Time in Seconds			
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
SPL320	320	30.3	38.5	60.4	95.1	114	125	138	163	177	190	204	226	268	283	325	363
SPL330	330	31.2	39.7	62.3	98.1	118	129	142	168	183	196	210	233	276	292	336	374
SPL340	340	32.2	40.9	64.1	101	121	133	146	173	188	202	216	240	284	300	346	385
SPL350	350	33.1	42.1	66	104	125	137	151	179	194	208	223	247	293	309	356	397
SPL360	360	34.1	43.3	67.9	107	128	140	155	184	199	214	229	254	301	318	366	408
SPL370	370	35	44.5	69.8	110	132	144	159	189	205	220	236	261	310	327	376	419
SPL380	380	36	45.7	71.7	113	136	148	163	194	210	225	242	269	318	336	386	431
SPL390	390	36.9	46.9	73.6	116	139	152	168	199	216	231	248	276	326	345	397	442
SPL400	400	37.9	48.1	75.5	119	143	156	172	204	221	237	255	283	335	353	407	453
SPL410	410	38.8	49.3	77.4	122	146	160	176	209	227	243	261	290	343	362	417	465
SPL420	420	39.8	50.5	79.5	125	150	164	181	214	232	249	267	297	351	371	427	476
SPL430	430	40.7	51.7	81.1	128	153	168	185	219	238	255	274	304	360	380	437	487
SPL440	440	41.7	52.9	83	131	157	172	189	224	243	261	280	311	368	389	447	499
SPL450	450	42.6	54.1	84.9	134	161	176	194	230	249	267	287	318	377	398	458	510
SPL460	460	43.5	55.4	86.8	137	164	179	198	235	255	273	293	325	385	406	468	521
SPL470	470	44.5	56.6	88.7	140	168	183	202	240	260	279	299	332	393	415	478	533
SPL480	480	45.4	57.8	90.6	143	171	187	206	245	266	285	306	339	402	424	488	544
SPL490	490	46.4	59	92.4	146	175	191	211	250	271	291	312	346	410	433	498	555
SPL500	500	47.3	60.2	94.3	149	178	195	215	255	277	297	318	353	418	442	508	567
SPL510	510	48.3	61.4	96.2	152	182	199	219	260	282	303	325	360	427	451	519	578
SPL520	520	49.2	62.6	98.1	155	185	203	224	265	288	309	331	367	435	459	529	589
SPL530	530	50.2	63.8	100	158	189	207	228	270	293	314	337	375	443	468	539	601
SPL540	540	51.1	65	102	161	193	211	232	275	299	320	344	382	452	477	549	612
SPL550	550	52.1	66.2	104	164	196	215	237	281	304	326	350	389	460	486	559	623
SPL560	560	53	67.4	106	167	200	218	241	286	310	332	357	396	469	495	569	635
SPL570	570	54	68.6	108	169	203	222	245	291	315	338	363	403	477	503	580	646
SPL580	580	54.9	69.8	109	172	207	226	249	296	321	344	369	410	485	512	590	657
SPL590	590	55.9	71	111	175	210	230	254	301	326	350	376	417	494	521	600	669
SPL600	600	56.8	72.2	113	178	214	234	258	306	332	356	382	424	502	530	610	680



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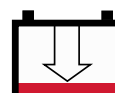
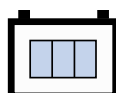
Cell Performance Data

Performance after prolonged float charge of fully charged cells

Available amperes at +20°C ±5°C(+68°F ±9°F)

Final voltage: 1.10 V/cell

Cell Type	Capacity (C ₅ Ah)	Discharge Time in Hours							Discharge Time in minutes					Time in Seconds			
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
SPL30	30	2.98	3.76	5.83	9.25	12.8	15	17.6	20.5	21.6	23.2	24.8	27.3	31.3	32.9	35.9	38.9
SPL40	40	3.97	5.01	7.77	12.3	17.1	20	23.5	27.3	28.8	30.9	33.1	36.4	41.7	43.9	47.9	51.9
SPL50	50	4.97	6.27	9.72	15.4	21.3	25	29.3	34.2	36	38.7	41.3	45.5	52.2	54.8	59.8	64.8
SPL60	60	5.96	7.52	11.7	18.5	25.6	30	35.2	41	43.2	46.4	49.6	54.6	62.6	65.8	71.8	77.8
SPL70	70	6.95	8.77	13.6	21.6	29.9	35	41.1	47.8	50.4	54.1	57.9	63.7	73	76.8	83.8	90.8
SPL80	80	7.95	10.03	15.5	24.7	34.1	40	46.9	54.7	57.6	61.9	66.1	72.8	83.5	87.7	95.7	104
SPL90	90	8.94	11.28	17.5	27.8	38.4	45	52.8	61.5	64.8	69.6	74.4	81.9	93.9	98.7	108	117
SPL95	95	9.44	11.91	18.5	29.3	40.5	47.5	55.7	64.9	68.4	73.5	78.5	86.5	99.1	104	114	123
SPL100	100	9.93	12.53	19.4	30.8	42.7	50	58.7	68.3	72	77.3	82.7	91	104	110	120	130
SPL110	110	10.9	13.8	21.4	33.9	46.9	55	64.5	75.2	79.2	85.1	90.9	100	115	121	132	143
SPL120	120	11.9	15	23.3	37	51.2	60	70.4	82	86.4	92.8	99.2	109	125	132	144	156
SPL130	130	12.9	16.3	25.3	40.1	55.5	65	76.3	88.8	93.6	101	107	118	136	143	156	169
SPL140	140	13.9	17.5	27.2	43.2	59.7	70	82.1	95.7	101	108	116	127	146	154	168	182
SPL150	150	14.9	18.8	29.2	46.3	64	75	88	103	108	116	124	137	157	165	180	195
SPL160	160	15.9	20.1	31.1	49.3	68.3	80	93.9	109	115	124	132	146	167	175	191	207
SPL170	170	16.9	21.3	33	52.4	72.5	85	99.7	116	122	131	141	155	177	186	203	220
SPL180	180	17.9	22.6	35	55.5	76.8	90	106	123	130	139	149	164	188	197	215	233
SPL190	190	18.9	23.8	36.9	58.6	81.1	95	111	130	137	147	157	173	198	208	227	246
SPL200	200	19.9	25.1	38.9	61.7	85.3	100	117	137	144	155	165	182	209	219	239	259
SPL210	210	20.9	26.3	40.8	64.8	89.6	105	123	144	151	162	174	191	219	230	251	272
SPL220	220	21.9	27.6	42.8	67.8	93.9	110	129	150	158	170	182	200	230	241	263	285
SPL230	230	22.8	28.8	44.7	70.9	98.1	115	135	157	166	178	190	209	240	252	275	298
SPL240	240	23.8	30.1	46.6	74	102	120	141	164	173	186	198	218	250	263	287	311
SPL250	250	24.8	31.3	48.6	77.1	107	125	147	171	180	193	207	228	261	274	299	324
SPL260	260	25.8	32.6	50.5	80.2	111	130	153	178	187	201	215	237	271	285	311	337
SPL270	270	26.8	33.8	52.5	83.3	115	135	158	185	194	209	223	246	282	296	323	350
SPL280	280	27.8	35.1	54.4	86.3	119	140	164	191	202	217	231	255	292	307	335	363
SPL290	290	28.8	36.3	56.4	89.4	124	145	170	198	209	224	240	264	303	318	347	376
SPL300	300	29.8	37.6	58.3	92.5	128	150	176	205	216	232	248	273	313	329	359	389
SPL310	310	30.8	38.9	60.2	95.6	132	155	182	212	223	240	256	282	323	340	371	402



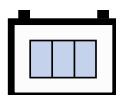
Cell Performance Data

Performance after prolonged float charge of fully charged cells

Available amperes at +20°C ±5°C(+68°F ±9°F)

Final voltage: 1.10 V/cell

Cell Type	Capacity (C ₅ Ah)	Discharge Time in Hours							Discharge Time in minutes						Time in Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
SPL320	320	31.8	40.1	62.2	98.7	137	160	188	219	230	247	265	291	334	351	383	415
SPL330	330	32.8	41.4	64.1	102	141	165	194	226	238	255	273	300	344	362	395	428
SPL340	340	33.8	42.6	66.1	105	145	170	199	232	245	263	281	309	355	373	407	441
SPL350	350	34.8	43.9	68	108	149	175	205	239	252	271	289	319	365	384	419	454
SPL360	360	35.8	45.1	70	111	154	180	211	246	259	278	298	328	376	395	431	467
SPL370	370	36.8	46.4	71.9	114	158	185	217	253	266	286	306	337	386	406	443	480
SPL380	380	37.7	47.6	73.8	117	162	190	223	260	274	294	314	346	396	417	455	493
SPL390	390	38.7	48.9	75.8	120	166	195	229	267	281	302	322	355	407	428	467	506
SPL400	400	39.7	50.1	77.7	123	171	200	235	273	288	309	331	364	417	439	479	519
SPL410	410	40.7	51.4	79.7	126	175	205	241	280	295	317	339	373	428	450	491	532
SPL420	420	41.7	52.6	81.6	130	179	210	246	287	302	325	347	382	438	461	503	545
SPL430	430	42.7	53.9	83.6	133	183	215	252	294	310	333	355	391	449	472	515	545
SPL440	440	43.7	55.1	85.5	136	188	220	258	301	317	340	364	400	459	483	527	571
SPL450	450	44.7	56.4	87.5	139	192	225	264	308	324	348	372	410	470	493	539	584
SPL460	460	45.7	57.7	89.4	142	196	230	270	314	331	356	380	419	480	504	550	596
SPL470	470	46.7	58.9	91.3	145	201	235	276	321	338	363	389	428	490	515	562	609
SPL480	480	47.7	60.2	93.3	148	205	240	282	328	346	371	397	437	501	526	574	622
SPL490	490	48.7	61.4	95.2	151	209	245	287	335	353	379	405	446	511	537	586	635
SPL500	500	49.7	62.7	97.2	154	213	250	293	342	360	387	413	455	522	548	598	648
SPL510	510	50.7	63.9	99.1	157	218	255	299	349	367	394	422	464	532	559	610	661
SPL520	520	51.7	65.2	101	160	222	260	305	355	374	402	430	473	543	570	622	674
SPL530	530	52.6	66.4	103	163	226	265	311	362	382	410	438	482	553	581	634	687
SPL540	540	53.6	67.7	105	167	230	270	317	369	389	418	446	491	563	592	646	700
SPL550	550	54.6	68.9	107	170	235	275	323	376	396	425	455	500	574	603	658	713
SPL560	560	55.6	70.2	109	173	239	280	329	383	403	433	463	510	584	614	670	726
SPL570	570	56.6	71.4	111	176	243	285	334	389	410	441	471	519	595	625	682	739
SPL580	580	57.6	72.7	113	179	247	290	340	396	418	449	479	528	605	636	694	752
SPL590	590	58.6	73.9	115	182	252	295	346	403	425	456	488	537	616	647	706	765
SPL600	600	59.6	75.2	117	185	256	300	352	410	432	464	496	546	626	658	718	778



Ultra-low Maintenance Gas Recombination NiCd Battery

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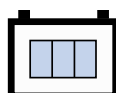
Cell Performance Data

Performance after prolonged float charge of fully charged cells

Available amperes at +20°C ±5°C(+68°F ±9°F)

Final voltage: 1.05 V/cell

Cell Type	Capacity (C ₅ Ah)	Discharge Time in Hours							Discharge Time in minutes					Time in Seconds			
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
SPL30	30	3.03	3.75	5.94	9.53	13.5	16.8	20.1	24.7	26.4	27.6	28.8	31.1	36.5	39.1	44.2	48.2
SPL40	40	4.04	5	7.92	12.7	18	22.4	26.8	32.9	35.2	36.8	38.4	41.5	48.7	52.1	58.9	64.3
SPL50	50	5.05	6.25	9.9	15.9	22.5	28	33.5	41.2	44	46	48	51.8	60.8	65.2	73.7	80.3
SPL60	60	6.06	7.5	11.9	19.1	27	33.6	40.2	49.4	52.8	55.2	57.6	62.2	73	78.2	88.4	96.4
SPL70	70	7.07	8.75	13.9	22.2	31.5	39.2	46.9	57.6	61.6	64.4	67.2	72.6	85.2	91.2	103	112
SPL80	80	8.08	10	15.8	25.4	36	44.8	53.6	65.9	70.4	73.6	76.8	82.9	97.3	104	118	129
SPL90	90	9.09	11.3	17.8	28.6	40.5	50.4	60.3	74.1	79.2	82.8	86.4	93.3	110	117	133	145
SPL95	95	9.6	11.9	18.8	30.2	42.8	53.2	63.7	78.2	83.6	87.4	91.2	98.5	116	124	140	153
SPL100	100	10.1	12.5	19.8	31.8	45	56	67	82.3	88	92	96	104	122	130	147	161
SPL110	110	11.1	13.8	21.8	34.9	49.5	61.6	73.7	90.6	96.8	101	106	114	134	143	162	177
SPL120	120	12.1	15	23.8	38.1	54	67.2	80.4	98.8	106	110	115	124	146	156	177	193
SPL130	130	13.1	16.3	25.7	41.3	58.5	72.8	87.1	107	114	120	125	135	158	169	192	209
SPL140	140	14.1	17.5	27.7	44.5	63	78.4	93.8	115	123	129	134	145	170	182	206	225
SPL150	150	15.2	18.8	29.7	47.6	67.5	84	101	124	132	138	144	156	183	196	221	241
SPL160	160	16.2	20	31.7	50.8	72	89.6	107	132	141	147	154	166	195	209	236	257
SPL170	170	17.2	21.3	33.7	54	76.5	95.2	114	140	150	156	163	176	207	222	250	273
SPL180	180	18.2	22.5	35.6	57.2	81	101	121	148	158	166	173	187	219	235	265	289
SPL190	190	19.2	23.8	37.6	60.3	85.5	106	127	156	167	175	182	197	231	248	280	305
SPL200	200	20.2	25	39.6	63.5	90	112	134	165	176	184	192	207	243	261	295	321
SPL210	210	21.2	26.3	41.6	66.7	94.5	118	141	173	185	193	202	218	256	274	309	337
SPL220	220	22.2	27.5	43.6	69.9	99	123	147	181	194	202	211	228	268	287	324	353
SPL230	230	23.2	28.8	45.5	73	104	129	154	189	202	212	221	238	280	300	339	370
SPL240	240	24.2	30	47.5	76.2	108	134	161	198	211	221	230	249	292	313	354	386
SPL250	250	25.3	31.3	49.5	79.4	113	140	168	206	220	230	240	259	304	326	368	402
SPL260	260	26.3	32.5	51.5	82.6	117	146	174	214	229	239	250	270	316	339	383	418
SPL270	270	27.3	33.8	53.5	85.7	122	151	181	222	238	248	259	280	329	352	398	434
SPL280	280	28.3	35	55.4	88.9	126	157	188	231	246	258	269	290	341	365	413	450
SPL290	290	29.3	36.3	57.4	92.1	131	162	194	239	255	267	278	301	353	378	427	466
SPL300	300	30.3	37.5	59.4	95.3	135	168	201	247	264	276	288	311	365	391	442	482
SPL310	310	31.3	38.8	61.4	98.5	140	174	208	255	273	285	298	321	377	404	457	498



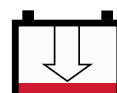
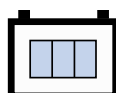
Cell Performance Data

Performance after prolonged float charge of fully charged cells

Available amperes at +20°C ±5°C(+68°F ±9°F)

Final voltage: 1.05 V/cell

Cell Type	Capacity (C ₅ Ah)	Discharge Time in Hours							Discharge Time in minutes					Time in Seconds			
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
SPL320	320	32.3	40	63.4	102	144	179	214	263	282	294	307	332	389	417	471	514
SPL330	330	33.3	41.3	65.3	105	149	185	221	272	290	304	317	342	402	430	486	530
SPL340	340	34.3	42.5	67.3	108	153	190	228	280	299	313	326	352	414	443	501	546
SPL350	350	35.4	43.8	69.3	111	158	196	235	288	308	322	336	363	426	456	516	562
SPL360	360	36.4	45	71.3	114	162	202	241	296	317	331	346	373	438	469	530	578
SPL370	370	37.4	46.3	73.3	118	167	207	248	305	326	340	355	384	450	482	545	594
SPL380	380	38.4	47.5	75.2	121	171	213	255	313	334	350	365	394	462	495	560	611
SPL390	390	39.4	48.8	77.2	124	176	218	261	321	343	359	374	404	475	508	575	627
SPL400	400	40.4	50	79.2	127	180	224	268	329	352	368	384	415	487	521	589	643
SPL410	410	41.4	51.3	81.2	130	185	230	275	338	361	377	394	425	499	534	604	659
SPL420	420	42.4	52.5	83.2	133	189	235	281	346	370	386	403	435	511	547	619	675
SPL430	430	43.4	53.8	85.1	137	194	241	288	354	378	396	413	446	523	560	634	691
SPL440	440	44.4	55	87.1	140	198	246	295	362	387	405	422	456	535	573	648	707
SPL450	450	45.5	56.3	89.1	143	203	252	302	371	396	414	432	467	548	587	663	723
SPL460	460	46.5	57.5	91.1	146	207	258	308	379	405	423	442	477	560	600	678	739
SPL470	470	47.5	58.8	93.1	149	212	263	315	387	414	432	451	487	572	613	692	755
SPL480	480	48.5	60	95	152	216	269	322	395	422	442	461	498	584	626	707	771
SPL490	490	49.5	61.3	97	156	221	274	328	403	431	451	470	509	596	639	722	787
SPL500	500	50.5	62.5	99	159	225	280	335	412	440	460	480	518	608	652	737	803
SPL510	510	51.5	63.8	101	162	230	286	342	420	449	469	490	529	621	665	751	819
SPL520	520	52.5	65	103	165	234	291	348	428	458	478	499	539	633	678	766	835
SPL530	530	53.5	66.3	105	168	239	297	355	436	466	488	509	549	645	691	781	852
SPL540	540	54.5	67.5	107	171	243	302	362	445	475	497	518	560	657	704	796	868
SPL550	550	55.6	68.8	109	175	248	308	369	453	484	506	528	570	669	717	810	884
SPL560	560	56.6	70	111	178	252	314	375	461	493	515	538	581	681	730	825	900
SPL570	570	57.6	71.3	113	181	257	319	382	469	502	524	547	591	693	743	840	916
SPL580	580	58.6	72.5	115	184	261	325	389	478	510	534	557	601	706	756	855	932
SPL590	590	59.6	73.8	117	187	266	330	395	486	519	543	566	612	718	769	869	948
SPL600	600	60.6	75	119	191	270	336	402	494	528	552	576	622	730	782	884	964



Ultra-low Maintenance Gas Recombination NiCd Battery

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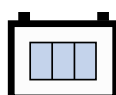
Cell Performance Data

Performance after prolonged float charge of fully charged cells

Available amperes at +20°C ±5°C(+68°F ±9°F)

Final voltage: 1.00 V/cell

Cell Type	Capacity (C ₅ Ah)	Discharge Time in Hours							Discharge Time in minutes						Time in Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
SPL30	30	3.06	3.78	6	9.69	13.9	18.3	23.6	28.1	30.1	31.6	33.5	35.8	41	43.3	49	55.1
SPL40	40	4.08	5.04	8	12.9	18.5	24.4	31.5	37.5	40.1	42.1	44.7	47.7	54.7	57.7	65.3	73.5
SPL50	50	5.1	6.3	10	16.2	23.2	30.5	39.3	46.8	50.2	52.7	55.8	59.7	68.3	72.2	81.7	91.8
SPL60	60	6.12	7.56	12	19.4	27.8	36.6	47.2	56.2	60.2	63.2	67	71.6	82	86.6	98	110
SPL70	70	7.14	8.82	14	22.6	32.4	42.7	55.1	65.6	70.2	73.7	78.2	83.5	95.7	101	114	129
SPL80	80	8.16	10.08	16	25.8	37.1	48.8	62.9	74.9	80.3	84.3	89.3	95.5	109	115	131	147
SPL90	90	9.18	11.34	18	29.1	41.7	54.9	70.8	84.3	90.3	94.8	101	107	123	130	147	165
SPL95	95	9.69	11.97	19	30.7	44	58	74.7	89	95.3	100	106	113	130	137	155	174
SPL100	100	10.2	12.6	20	32.3	46.3	61	78.7	93.7	100	105	112	119	137	144	163	184
SPL110	110	11.2	13.9	22	35.5	51	67.1	86.5	103	110	116	123	131	150	159	180	202
SPL120	120	12.2	15.1	24	38.8	55.6	73.2	94.4	112	120	126	134	143	164	173	196	220
SPL130	130	13.3	16.4	26	42	60.2	79.3	102	122	130	137	145	155	178	188	212	239
SPL140	140	14.3	17.6	28	45.2	64.9	85.4	110	131	140	147	156	167	191	202	229	257
SPL150	150	15.3	18.9	30	48.5	69.5	91.5	118	141	151	158	168	179	205	217	245	276
SPL160	160	16.3	20.2	32	51.7	74.1	97.6	126	150	161	169	179	191	219	231	261	294
SPL170	170	17.3	21.4	34	54.9	78.8	104	134	159	171	179	190	203	232	245	278	312
SPL180	180	18.4	22.7	36	58.1	83.4	110	142	169	181	190	201	215	246	260	294	331
SPL190	190	19.4	23.9	38	61.4	88	116	149	178	191	200	212	227	260	274	310	349
SPL200	200	20.4	25.2	40	64.6	92.7	122	157	187	201	211	223	239	273	289	327	367
SPL210	210	21.4	26.5	42	67.8	97.3	128	165	197	211	221	235	251	287	303	343	386
SPL220	220	22.4	27.7	44	71.1	102	134	173	206	221	232	246	263	301	318	359	404
SPL230	230	23.5	29	46	74.3	107	140	181	215	231	242	257	274	314	332	376	422
SPL240	240	24.5	30.2	48	77.5	111	146	189	225	241	253	268	286	328	346	392	441
SPL250	250	25.5	31.5	50	80.7	116	153	197	234	251	263	279	298	342	361	408	459
SPL260	260	26.5	32.8	52	84	120	159	205	244	261	274	290	310	355	375	425	478
SPL270	270	27.5	34	54	87.2	125	165	212	253	271	284	302	322	369	390	441	496
SPL280	280	28.6	35.3	56	90.4	130	171	220	262	281	295	313	334	383	404	457	514
SPL290	290	29.6	36.5	58	93.7	134	177	228	272	291	305	324	346	396	419	474	533
SPL300	300	30.6	37.8	60	96.9	139	183	236	281	301	316	335	358	410	433	490	551
SPL310	310	31.6	39.1	62	100	144	189	244	290	311	327	346	370	424	447	506	569



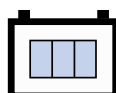
Cell Performance Data

Performance after prolonged float charge of fully charged cells

Available amperes at +20°C ±5°C(+68°F ±9°F)

Final voltage: 1.00 V/cell

Cell Type	Capacity (C ₅ Ah)	Discharge Time in Hours							Discharge Time in minutes					Time in Seconds			
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
SPL320	320	32.6	40.3	64	103	148	195	252	300	321	337	357	382	437	462	523	588
SPL330	330	33.7	41.6	66	107	153	201	260	309	331	348	369	394	451	476	539	606
SPL340	340	34.7	42.8	68	110	158	207	267	318	341	358	380	406	465	491	555	624
SPL350	350	35.7	44.1	70	113	162	214	275	328	351	369	391	418	478	505	572	643
SPL360	360	36.7	45.4	72	116	167	220	283	337	361	379	402	430	492	520	588	661
SPL370	370	37.7	46.6	74	120	171	226	291	347	371	390	413	442	506	534	604	680
SPL380	380	38.8	47.9	76	123	176	232	299	356	381	400	424	453	519	548	621	698
SPL390	390	39.8	49.1	78	126	181	238	307	365	391	411	436	465	533	563	637	716
SPL400	400	40.8	50.4	80	129	185	244	315	375	401	421	447	477	547	577	653	735
SPL410	410	41.8	51.7	82	132	190	250	323	384	411	432	458	489	560	592	670	753
SPL420	420	42.8	52.9	84	136	195	256	330	393	421	442	469	501	574	606	686	771
SPL430	430	43.9	54.2	86	139	199	262	338	403	431	453	480	513	588	621	702	790
SPL440	440	44.9	55.4	88	142	204	268	346	412	441	463	491	525	601	635	719	808
SPL450	450	45.9	56.7	90	145	209	275	354	422	452	474	503	537	615	649	735	826
SPL460	460	46.9	58	92	149	213	281	362	431	462	485	514	549	629	664	751	845
SPL470	470	47.9	59.2	94	152	218	287	370	440	472	495	525	561	642	678	768	863
SPL480	480	49	60.5	96	155	222	293	378	450	482	506	536	573	656	693	784	882
SPL490	490	50	61.7	98	158	227	299	385	459	492	516	547	585	670	707	800	900
SPL500	500	51	63	100	162	232	305	393	468	502	527	558	597	683	722	817	918
SPL510	510	52	64.3	102	165	236	311	401	478	512	537	570	609	697	736	833	937
SPL520	520	53	65.5	104	168	241	317	409	487	522	548	581	621	711	751	849	955
SPL530	530	54.1	66.8	106	171	246	323	417	496	532	558	592	632	724	765	866	973
SPL540	540	55.1	68	108	174	250	329	425	506	542	569	603	644	738	779	882	992
SPL550	550	56.1	69.3	110	178	255	336	433	515	552	579	614	656	752	794	898	1010
SPL560	560	57.1	70.6	112	181	259	342	441	525	562	590	625	668	765	808	915	1029
SPL570	570	58.1	71.8	114	184	264	348	448	534	572	600	636	680	779	823	931	1047
SPL580	580	59.2	73.1	116	187	269	354	456	543	582	611	648	692	793	837	947	1065
SPL590	590	60.2	74.3	118	191	273	360	464	553	592	621	659	704	806	852	964	1084
SPL600	600	61.2	75.6	120	194	278	366	472	562	602	632	670	716	820	866	980	1102



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