



Industrial Batteries – Standby Power
Sonnenschein A600
Premium quality for uninterrupted communication.

Specifications

Highest capacity and reliability for limited space.

Specifications

- Two options:
 - A600 for vertical installation
 - A600 WE for horizontal installation
- Extraordinary energy-saving features in addition with robust reliability
- Maintenance-free (no topping up) during the whole service life due to the Sonnenschein dryfit technology
- Nominal capacity
100–3000 Ah C_{10}
- Design life:
15 years for 6/12 V blocks and
18 years for 2 V cells at 20°C
(80% remaining capacity from C_{10})
- Container material:
 - blocks = ABS, UL 94-HB;
optional ABS, UL 94-V0
 - cells = SAN, UL 94-HB;
optional ABS, UL 94-V0
- Robust tubular plate technology
- Very low gassing due to internal gas recombination
- Long shelf life up to 2 years at 20°C without recharge due to the very low self discharge rate
- Proof against deep discharge according to DIN 43 539 T5
- In compliance with DIN 40744 (blocks), DIN 40742 (cells)
- Trouble-free transportation of operational blocks and cells, no restrictions for rail, road, sea and air transportation (IATA, DGR clause A 67)
- Completely recyclable



Applications

In the first place, batteries of the Sonnenschein A600 series care for undisturbed connection in telecommunication fields such as telephone exchanges or mobile phone base stations. Further applications include emergency lighting, security, railways, utility and other power supplies for safety systems.



Valve regulated
lead acid
batteries



Tubular plate



Nominal capacity
100–3000 Ah



Block battery



Single cell



Design life:
blocks 15 years
cells 18 years



Maintenance-
free
(no topping up)



Proof against
deep discharge
acc. to
DIN 43 539 T5



Recyclable

A600 block

Exide type designation	Type designation acc. to DIN 40744	Part number	Nominal voltage V	Nominal capacity C_{10} 1.8 V/C 20°C Ah	Discharge current I_{10} A	Length (l) max. mm	Width (b/w) max. mm	Height (h1) max. mm	Height (h2) max. mm	Installed length (B/L) mm	Weight approx. kg	Internal resistance acc. to IEC 896-2 m Ω	Short circuit current acc. to IEC 896-2 A	Terminal	Pole pairs
A612/100	12 V 2 OPzV 100	NGA6120100HS0FA	12	91	9.1	273	204	319	350	281	43	8.28	1400	F-M8	1
A612/150	12 V 3 OPzV 150	NGA6120150HS0FA	12	137	13.7	381	204	319	350	389	63	5.88	2000	F-M8	1
A606/200	6 V 4 OPzV 200	NGA6060200HS0FA	6	182	18.2	273	204	319	350	281	43	2.31	2550	F-M8	1
A606/300	6 V 6 OPzV 300	NGA6060300HS0FA	6	274	27.4	381	204	319	350	389	62	1.80	3300	F-M8	1

Data are also valid for UL 94-V0 version.
Change „H“ to „V“ in the part number.

E.g.:

Standard NGA6120100 **H**S0FA

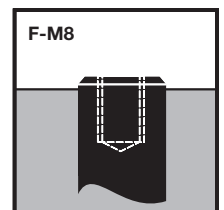
UL 94-V0 NGA6120100 **V**S0FA

Container, approval, terminal and torque

Container: Standard = ABS

UL 94-V0 = ABS

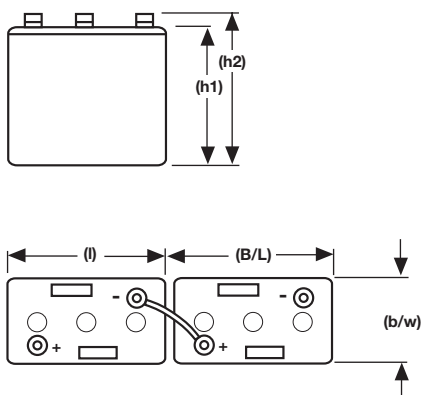
Approval: DIN/Gost/TÜV, Russia



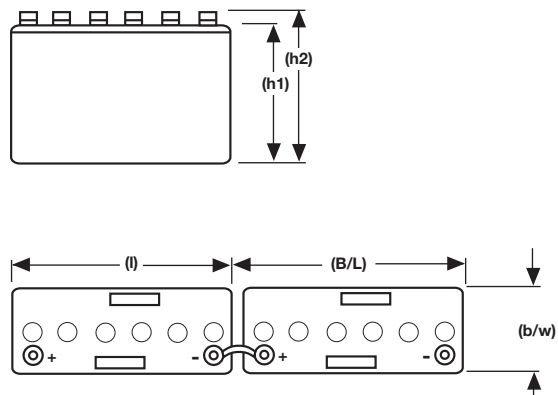
12 Nm

Drawings with terminal position

6 V block



12 V block



Not to scale!

A600

Exide type designation	Type designation acc. to DIN 40742	Part number	Nominal voltage V	Nominal capacity C ₁₀ 1.8 V/C 20°C Ah	Discharge current I ₁₀ A	Length (l) max. mm	Width (b/w) max. mm	Height (h1) max. mm	Height (h2) max. mm	Installed length (B/L) mm	Weight approx. kg	Internal resistance acc. to IEC 896-2 m Ω	Short circuit current acc. to IEC 896-2 A	Terminal	Pole pairs
A602/200	4 OPzV 200	NGA6020200HS0FA	2	200	20	105	208	360	398	113	20	0.94	2235	F-M8	1
A602/250	5 OPzV 250	NGA6020250HS0FA	2	250	25	126	208	360	398	134	23	0.78	2706	F-M8	1
A602/300	6 OPzV 300	NGA6020300HS0FA	2	300	30	147	208	360	398	155	27	0.60	3414	F-M8	1
A602/350	5 OPzV 350	NGA6020350HS0FA	2	350	35	126	208	475	513	134	30	0.61	3418	F-M8	1
A602/420	6 OPzV 420	NGA6020420HS0FA	2	420	42	147	208	475	513	155	35	0.49	4220	F-M8	1
A602/490	7 OPzV 490	NGA6020490HS0FA	2	490	49	168	208	475	513	176	40	0.51	4096	F-M8	1
A602/600	6 OPzV 600	NGA6020600HS0FA	2	600	60	147	208	650	688	155	48	0.44	4743	F-M8	1
A602/800	8 OPzV 800	NGA6020800HS0FA	2	800	80	212	193	650	688	220	67	0.30	6818	F-M8	2
A602/1000	10 OPzV 1000	NGA6021000HS0FA	2	1000	100	212	235	650	688	220	80	0.25	8200	F-M8	2
A602/1200	12 OPzV 1200	NGA6021200HS0FA	2	1200	120	212	277	650	688	220	94	0.21	9840	F-M8	2
A602/1500	12 OPzV 1500	NGA6021500HS0FA	2	1500	150	212	277	800	838	220	118	0.19	10500	F-M8	2
A602/2000	16 OPzV 2000	NGA6022000HS0FA	2	2000	200	215	400	775	815	223	160	0.15	14000	F-M8	3
A602/2500	20 OPzV 2500	NGA6022500HS0FA	2	2500	250	215	490	775	815	223	200	0.12	17500	F-M8	4
A602/3000	24 OPzV 3000	NGA6023000HS0FA	2	3000	300	215	580	775	815	223	240	0.10	21000	F-M8	4

Container, approval, terminal and torque

Container: Standard = SAN

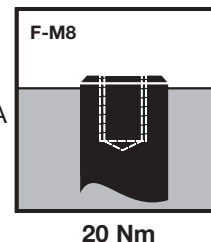
UL 94-V0 = ABS

Approval: Underwriters Laboratories (UL), USA

Germanischer Lloyd (GL)

DIN/Gost/TÜV, Russia

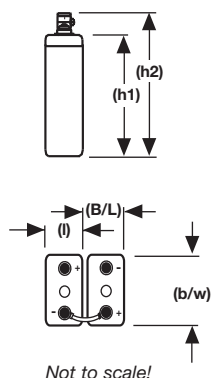
By many Telecom organisations worldwide



20 Nm

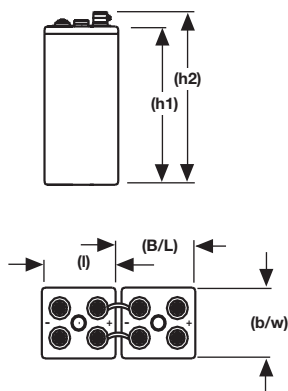
Drawings with terminal position

4 OPzV 200
up to
6 OPzV 600

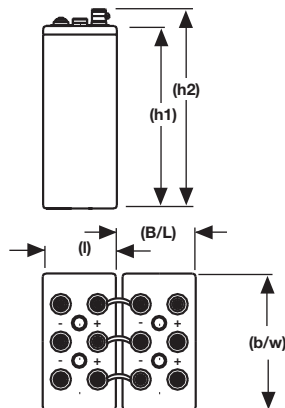


Not to scale!

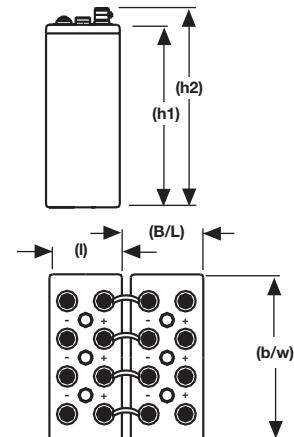
8 OPzV 800
up to
12 OPzV 1500



16 OPzV 2000



20 OPzV 2500
24 OPzV 3000



A600 WE

Exide type designation	Type designation acc. to DIN 40742	Part number	Nominal voltage V	Nominal capacity C_{10} 1.8 V/C 20°C Ah	Discharge current I_{10} A	Length (l) max. mm	Width (b/w1) max. mm	Width, incl. terminal + connector (b/w2) max. mm	Height (h) max. mm	Installed length (B/L) mm	Weight approx. kg	Internal resistance acc. to IEC 896-2 m Ω	Short circuit current acc. to IEC 896-2 A	Terminal	Pole pairs
A602/200 WE	4 OPzV 200 WE	NGA6020200HS0FB	2	200	20	105	360	398	208	113	20	0.94	2235	F-M8	1
A602/250 WE	5 OPzV 250 WE	NGA6020250HS0FB	2	250	25	126	360	398	208	134	23	0.78	2706	F-M8	1
A602/300 WE	6 OPzV 300 WE	NGA6020300HS0FB	2	300	30	147	360	398	208	155	27	0.60	3414	F-M8	1
A602/350 WE	5 OPzV 350 WE	NGA6020350HS0FB	2	350	35	126	475	513	208	134	30	0.61	3418	F-M8	1
A602/420 WE	6 OPzV 420 WE	NGA6020420HS0FB	2	420	42	147	475	513	208	155	35	0.49	4220	F-M8	1
A602/490 WE	7 OPzV 490 WE	NGA6020490HS0FB	2	490	49	168	475	513	208	176	40	0.51	4096	F-M8	1
A602/600 WE	6 OPzV 600 WE	NGA6020600HS0FB	2	600	60	147	650	688	208	155	48	0.44	4743	F-M8	1
A602/800 WE	8 OPzV 800 WE	NGA6020800HS0FB	2	800	80	193	650	688	212	203	67	0.30	6818	F-M8	2
A602/1000 WE	10 OPzV 1000 WE	NGA6021000HS0FB	2	1000	100	235	650	688	212	245	80	0.25	8200	F-M8	2
A602/1200 WE	12 OPzV 1200 WE	NGA6021200HS0FB	2	1200	120	277	650	688	212	287	94	0.21	9840	F-M8	2
A602/1500 WE	12 OPzV 1500 WE	NGA6021500HS0FB	2	1500	150	277	800	838	212	287	118	0.19	10500	F-M8	2

Data are also valid for UL 94-V0 version.

Change „H“ to „V“ in the part number.

E.g.:

Standard NGA6020200 **H**S0FB

UL 94-V0 NGA6020200 **V**S0FB

Container, approval, terminal and torque

Container: Standard = SAN

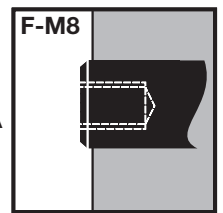
UL 94-V0 = ABS

Approval: Underwriters Laboratories (UL), USA

Germanischer Lloyd (GL)

DIN/Gost/TÜV, Russia

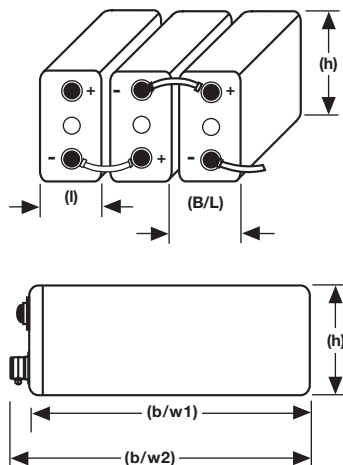
By many Telecom organisations worldwide



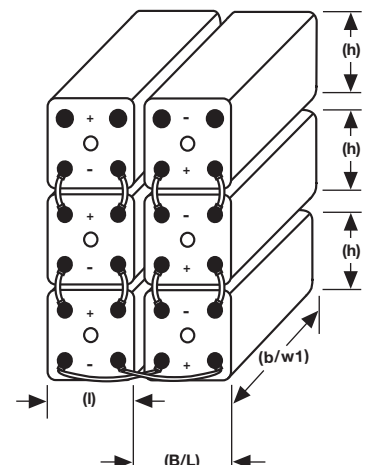
20 Nm

Orientation of cells at horizontal installation

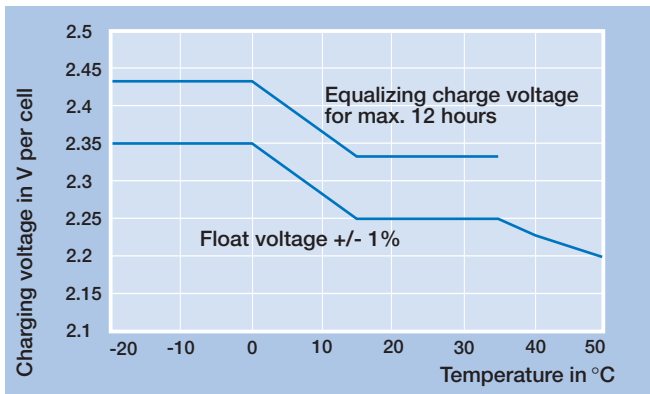
4 OPzV 200 WE
up to
6 OPzV 600 WE



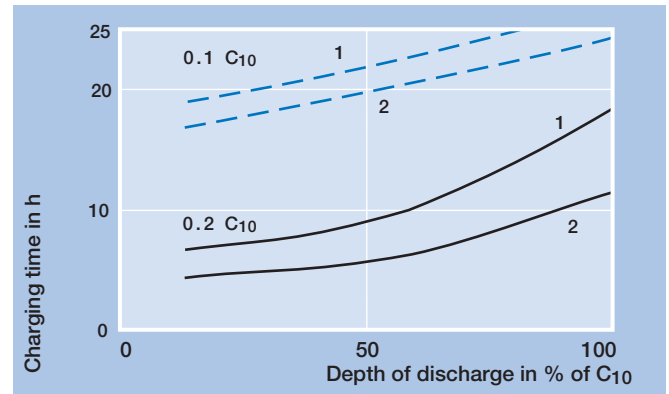
8 OPzV 800 WE
up to
12 OPzV 1500 WE



Not to scale!



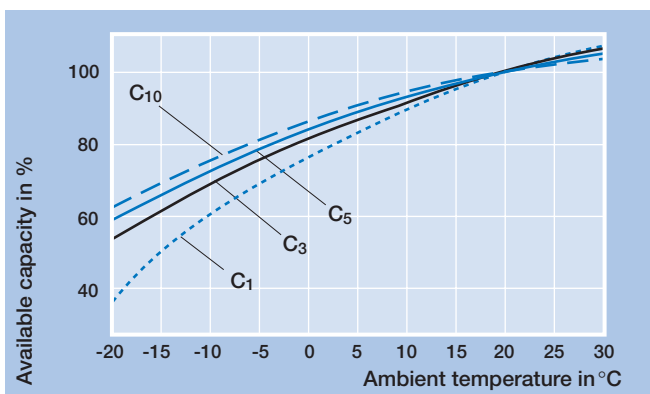
For continuous charging we recommend a voltage of 2.25 V. The charging voltage must be compensated to the curve for a continuously different battery ambient temperature.



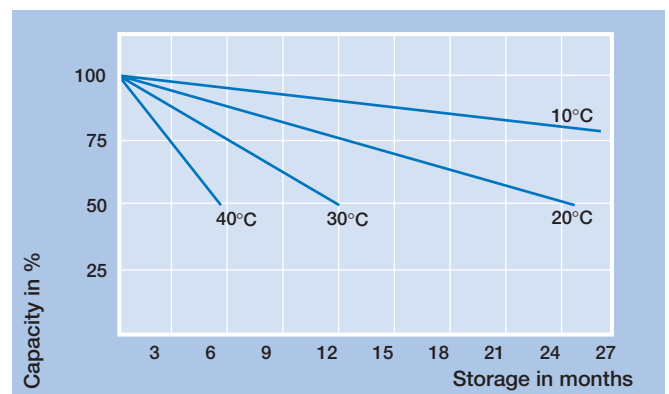
Recharging time in relation to the initial charging current at 20°C.

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

Charge voltage: 1: 2.25 V/C
 2: 2.40 V/C



Available capacity in relation to the ambient temperature.



Self-discharge in relation to the storage temperature.

A600 block

1.87 V/C – Discharge in A at 20°C

Type	Part number	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	24h
12 V 2 OPzV 100	NGA6120100HS0FA	96.9	86.7	75.8	64.6	42.8	28.5	21.3	17.2	14.6	12.7	10.1	8.4	3.9
12 V 3 OPzV 150	NGA6120150HS0FA	139.0	126.0	108.0	91.8	62.7	42.5	31.9	25.8	21.9	19.0	15.1	12.5	5.9
6 V 4 OPzV 200	NGA6060200HS0FA	177.0	162.0	137.0	116.0	81.7	55.9	42.6	34.5	29.3	25.3	20.1	16.7	7.8
6 V 6 OPzV 300	NGA6060300HS0FA	266.0	238.0	214.0	163.0	120.0	83.2	63.8	51.7	43.9	38.0	30.2	25.1	11.7

1.83 V/C – Discharge in A at 20°C

Type	Part number	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	24h
12 V 2 OPzV 100	NGA6120100HS0FA	112.0	96.9	88.5	71.2	47.5	30.4	22.6	18.2	15.4	13.3	10.6	8.7	4.1
12 V 3 OPzV 150	NGA6120150HS0FA	162.0	141.0	126.0	103.0	69.8	45.3	33.9	27.3	23.1	20.0	16.0	13.1	6.1
6 V 4 OPzV 200	NGA6060200HS0FA	205.0	181.0	162.0	131.0	91.2	60.0	45.2	36.4	30.8	26.7	21.3	17.5	8.2
6 V 6 OPzV 300	NGA6060300HS0FA	281.0	249.0	221.0	190.0	134.0	88.9	67.8	54.6	46.2	39.7	31.3	26.2	12.2

1.80 V/C – Discharge in A at 20°C

Type	Part number	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	24h
12 V 2 OPzV 100	NGA6120100HS0FA	126.0	109.0	96.9	75.8	52.3	31.9	23.9	19.0	16.0	13.8	11.0	9.1	4.2
12 V 3 OPzV 150	NGA6120150HS0FA	181.0	157.0	141.0	110.0	76.9	47.6	35.9	28.5	23.9	20.7	16.5	13.7	6.3
6 V 4 OPzV 200	NGA6060200HS0FA	231.0	201.0	181.0	148.0	101.0	63.9	47.9	38.1	31.9	27.6	22.0	18.2	8.4
6 V 6 OPzV 300	NGA6060300HS0FA	314.0	281.0	249.0	215.0	148.0	94.0	71.8	57.2	47.9	41.5	33.1	27.4	12.5

1.75 V/C – Discharge in A at 20°C

Type	Part number	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	24h
12 V 2 OPzV 100	NGA6120100HS0FA	139.0	124.0	105.0	83.1	56.1	33.7	24.9	19.7	16.5	14.2	11.2	9.3	4.3
12 V 3 OPzV 150	NGA6120150HS0FA	200.0	179.0	148.0	120.0	82.7	50.2	37.3	29.6	24.8	21.3	16.8	14.0	6.5
6 V 4 OPzV 200	NGA6060200HS0FA	253.0	227.0	187.0	155.0	108.0	66.5	49.8	39.6	33.1	28.4	22.4	18.6	8.6
6 V 6 OPzV 300	NGA6060300HS0FA	346.0	319.0	259.0	226.0	160.0	98.1	74.7	59.3	49.6	42.6	33.6	27.9	12.7

1.70 V/C – Discharge in A at 20°C

Type	Part number	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	24h
12 V 2 OPzV 100	NGA6120100HS0FA	151.0	137.0	123.0	91.8	58.9	36.1	25.5	20.2	16.9	14.5	11.4	9.3	4.3
12 V 3 OPzV 150	NGA6120150HS0FA	219.0	198.0	176.0	133.0	86.9	53.6	38.2	30.4	25.4	21.8	17.1	14.0	6.5
6 V 4 OPzV 200	NGA6060200HS0FA	277.0	253.0	223.0	173.0	114.0	70.3	50.9	40.4	33.8	29.0	22.8	18.6	8.6
6 V 6 OPzV 300	NGA6060300HS0FA	395.0	357.0	314.0	253.0	168.0	105.0	76.4	60.4	50.4	43.3	34.2	27.9	12.7

1.65 V/C – Discharge in A at 20°C

Type	Part number	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	24h
12 V 2 OPzV 100	NGA6120100HS0FA	167.0	149.0	131.0	95.0	58.9	36.1	25.5	20.2	16.9	14.5	11.4	9.3	4.3
12 V 3 OPzV 150	NGA6120150HS0FA	243.0	216.0	190.0	137.0	86.9	53.6	38.2	30.4	25.4	21.8	17.1	14.0	6.5
6 V 4 OPzV 200	NGA6060200HS0FA	313.0	273.0	240.0	179.0	114.0	70.3	50.9	40.4	33.8	29.0	22.8	18.6	8.6
6 V 6 OPzV 300	NGA6060300HS0FA	440.0	389.0	340.0	262.0	168.0	105.0	76.4	60.4	50.4	43.3	34.2	27.9	12.7

A600

1.90 V/C – Discharge in A at 20°C										
Type	Part number	10min	15min	30min	1h	2h	3h	5h	8h	10h
4 OPzV 200	NGA6020200HS0FA	138	132	110	88	58	46	31	22	18
5 OPzV 250	NGA6020250HS0FA	173	165	138	110	73	57	39	28	23
6 OPzV 300	NGA6020300HS0FA	208	198	166	132	88	68	47	33	28
5 OPzV 350	NGA6020350HS0FA	212	201	173	135	96	78	57	40	34
6 OPzV 420	NGA6020420HS0FA	215	203	179	149	109	90	68	48	40
7 OPzV 490	NGA6020490HS0FA	218	211	192	163	122	103	79	56	47
6 OPzV 600	NGA6020600HS0FA	224	218	204	176	136	117	92	65	55
8 OPzV 800	NGA6020800HS0FA	346	330	305	265	194	164	124	87	76
10 OPzV 1000	NGA6021000HS0FA	397	383	361	313	235	202	154	110	96
12 OPzV 1200	NGA6021200HS0FA	448	436	416	361	276	240	184	132	115
12 OPzV 1500	NGA6021500HS0FA	561	547	497	429	334	290	214	156	140
16 OPzV 2000	NGA6022000HS0FA	676	647	597	514	400	329	250	186	158
20 OPzV 2500	NGA6022500HS0FA	811	789	741	657	500	412	312	232	198
24 OPzV 3000	NGA6023000HS0FA	1094	1067	1022	837	650	573	427	309	261
1.87 V/C – Discharge in A at 20°C										
Type	Part number	10min	15min	30min	1h	2h	3h	5h	8h	10h
4 OPzV 200	NGA6020200HS0FA	157	148	128	95	66	50	34	24	20
5 OPzV 250	NGA6020250HS0FA	196	185	160	119	82	63	43	30	25
6 OPzV 300	NGA6020300HS0FA	235	222	192	143	98	76	52	36	30
5 OPzV 350	NGA6020350HS0FA	238	223	196	155	109	86	63	44	35
6 OPzV 420	NGA6020420HS0FA	261	244	215	176	124	100	75	52	42
7 OPzV 490	NGA6020490HS0FA	284	264	234	198	140	114	87	61	49
6 OPzV 600	NGA6020600HS0FA	304	282	252	220	157	129	101	71	60
8 OPzV 800	NGA6020800HS0FA	470	424	363	318	222	181	137	96	78
10 OPzV 1000	NGA6021000HS0FA	485	452	406	369	266	222	171	118	98
12 OPzV 1200	NGA6021200HS0FA	500	480	449	420	309	262	204	140	118
12 OPzV 1500	NGA6021500HS0FA	654	619	557	485	369	315	241	172	147
16 OPzV 2000	NGA6022000HS0FA	884	842	760	608	466	384	289	213	184
20 OPzV 2500	NGA6022500HS0FA	993	957	895	760	583	480	362	266	230
24 OPzV 3000	NGA6023000HS0FA	1124	1094	1044	930	709	614	478	340	288
1.83 V/C – Discharge in A at 20°C										
Type	Part number	10min	15min	30min	1h	2h	3h	5h	8h	10h
4 OPzV 200	NGA6020200HS0FA	200	180	145	106	73	55	37	25	21
5 OPzV 250	NGA6020250HS0FA	243	216	181	132	91	68	47	32	26
6 OPzV 300	NGA6020300HS0FA	292	259	217	158	109	82	56	37	31
5 OPzV 350	NGA6020350HS0FA	299	267	223	174	122	95	69	45	36
6 OPzV 420	NGA6020420HS0FA	359	320	267	209	147	114	82	54	44
7 OPzV 490	NGA6020490HS0FA	398	355	291	244	171	133	96	63	51
6 OPzV 600	NGA6020600HS0FA	403	357	296	252	181	146	112	78	64
8 OPzV 800	NGA6020800HS0FA	551	515	447	352	252	200	151	100	81
10 OPzV 1000	NGA6021000HS0FA	658	601	526	431	312	249	187	122	100
12 OPzV 1200	NGA6021200HS0FA	771	703	591	507	372	298	224	148	121
12 OPzV 1500	NGA6021500HS0FA	801	737	658	552	413	344	266	178	152
16 OPzV 2000	NGA6022000HS0FA	1009	975	882	737	550	459	355	249	203
20 OPzV 2500	NGA6022500HS0FA	1334	1284	1122	988	700	573	445	310	250
24 OPzV 3000	NGA6023000HS0FA	1601	1541	1347	1186	839	687	534	367	305

A600

1.80 V/C – Discharge in A at 20°C

Type	Part number	10min	15min	30min	1h	2h	3h	5h	8h	10h
4 OPzV 200	NGA6020200HS0FA	224	199	154	114	76	57	38	26	21
5 OPzV 250	NGA6020250HS0FA	277	248	192	142	95	71	48	32	26
6 OPzV 300	NGA6020300HS0FA	332	298	230	170	114	85	57	38	31
5 OPzV 350	NGA6020350HS0FA	340	308	243	188	130	100	71	46	37
6 OPzV 420	NGA6020420HS0FA	409	370	292	225	156	120	85	55	45
7 OPzV 490	NGA6020490HS0FA	453	410	323	263	182	140	99	64	52
6 OPzV 600	NGA6020600HS0FA	457	412	332	272	198	156	115	82	66
8 OPzV 800	NGA6020800HS0FA	600	590	501	382	270	211	154	102	82
10 OPzV 1000	NGA6021000HS0FA	729	702	588	464	338	264	193	126	103
12 OPzV 1200	NGA6021200HS0FA	865	806	687	550	407	318	232	151	123
12 OPzV 1500	NGA6021500HS0FA	889	833	737	620	461	372	284	186	155
16 OPzV 2000	NGA6022000HS0FA	1186	1125	1002	827	615	496	379	256	207
20 OPzV 2500	NGA6022500HS0FA	1451	1413	1274	1079	771	615	469	312	258
24 OPzV 3000	NGA6023000HS0FA	1742	1696	1528	1295	925	738	562	373	309

1.75 V/C – Discharge in A at 20°C

Type	Part number	10min	15min	30min	1h	2h	3h	5h	8h	10h
4 OPzV 200	NGA6020200HS0FA	261	230	171	122	79	58	39	27	21
5 OPzV 250	NGA6020250HS0FA	302	287	213	152	98	73	49	33	26
6 OPzV 300	NGA6020300HS0FA	362	344	256	182	118	87	58	40	31
5 OPzV 350	NGA6020350HS0FA	365	347	275	204	139	105	72	50	37
6 OPzV 420	NGA6020420HS0FA	438	417	330	245	167	126	86	60	45
7 OPzV 490	NGA6020490HS0FA	472	448	366	286	195	147	101	67	52
6 OPzV 600	NGA6020600HS0FA	477	454	388	302	219	168	118	85	66
8 OPzV 800	NGA6020800HS0FA	740	693	580	422	293	223	157	113	82
10 OPzV 1000	NGA6021000HS0FA	887	823	681	515	370	282	197	131	103
12 OPzV 1200	NGA6021200HS0FA	956	903	790	614	450	342	237	165	123
12 OPzV 1500	NGA6021500HS0FA	1011	995	874	697	521	407	294	197	155
16 OPzV 2000	NGA6022000HS0FA	1372	1326	1165	929	695	543	391	276	207
20 OPzV 2500	NGA6022500HS0FA	1685	1658	1510	1203	863	668	482	317	258
24 OPzV 3000	NGA6023000HS0FA	2022	1989	1813	1444	1035	802	579	378	309

1.70 V/C – Discharge in A at 20°C

Type	Part number	10min	15min	30min	1h	2h	3h	5h	8h	10h
4 OPzV 200	NGA6020200HS0FA	296	257	195	124	79	58	39	28	21
5 OPzV 250	NGA6020250HS0FA	345	304	244	155	99	73	49	33	26
6 OPzV 300	NGA6020300HS0FA	414	365	293	186	119	88	59	40	31
5 OPzV 350	NGA6020350HS0FA	418	374	309	215	144	107	73	51	37
6 OPzV 420	NGA6020420HS0FA	493	449	371	258	172	129	87	61	45
7 OPzV 490	NGA6020490HS0FA	517	498	411	301	201	150	102	68	52
6 OPzV 600	NGA6020600HS0FA	521	504	425	331	232	175	121	86	66
8 OPzV 800	NGA6020800HS0FA	856	794	660	459	306	231	159	115	82
10 OPzV 1000	NGA6021000HS0FA	1018	942	765	564	389	292	199	135	103
12 OPzV 1200	NGA6021200HS0FA	1112	1037	869	665	474	354	240	166	123
12 OPzV 1500	NGA6021500HS0FA	1208	1147	984	773	564	431	301	206	155
16 OPzV 2000	NGA6022000HS0FA	1610	1529	1312	1030	752	574	401	284	207
20 OPzV 2500	NGA6022500HS0FA	2013	1912	1640	1351	926	703	489	324	258
24 OPzV 3000	NGA6023000HS0FA	2415	2293	1993	1621	1112	843	587	391	309

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1.65 V/C – Discharge in A at 20°C										
Type	Part number	10min	15min	30min	1h	2h	3h	5h	8h	10h
4 OPzV 200	NGA6020200HS0FA	325	277	203	125	79	59	39	28	21
5 OPzV 250	NGA6020250HS0FA	379	329	253	156	99	73	49	33	26
6 OPzV 300	NGA6020300HS0FA	455	395	304	187	119	88	59	40	31
5 OPzV 350	NGA6020350HS0FA	464	414	338	224	146	109	73	51	37
6 OPzV 420	NGA6020420HS0FA	557	496	406	268	175	130	87	61	45
7 OPzV 490	NGA6020490HS0FA	607	550	450	313	204	152	102	68	52
6 OPzV 600	NGA6020600HS0FA	611	561	497	356	239	179	121	86	66
8 OPzV 800	NGA6020800HS0FA	930	860	712	494	314	235	159	115	82
10 OPzV 1000	NGA6021000HS0FA	1101	1020	858	611	398	296	199	135	103
12 OPzV 1200	NGA6021200HS0FA	1225	1131	990	726	485	359	240	166	123
12 OPzV 1500	NGA6021500HS0FA	1332	1245	1062	852	593	446	301	206	155
16 OPzV 2000	NGA6022000HS0FA	1769	1665	1421	1136	790	595	401	284	207
20 OPzV 2500	NGA6022500HS0FA	2210	2080	1812	1491	966	723	489	324	258
24 OPzV 3000	NGA6023000HS0FA	2653	2497	2131	1789	1159	868	587	391	309
1.60 V/C – Discharge in A at 20°C										
Type	Part number	10min	15min	30min	1h	2h	3h	5h	8h	10h
4 OPzV 200	NGA6020200HS0FA	356	299	212	125	80	59	39	28	21
5 OPzV 250	NGA6020250HS0FA	420	360	265	156	100	73	49	33	26
6 OPzV 300	NGA6020300HS0FA	504	432	318	187	120	88	59	40	31
5 OPzV 350	NGA6020350HS0FA	510	452	355	228	147	109	73	51	37
6 OPzV 420	NGA6020420HS0FA	612	542	426	273	177	131	87	61	45
7 OPzV 490	NGA6020490HS0FA	673	601	472	319	206	153	102	68	52
6 OPzV 600	NGA6020600HS0FA	677	624	522	369	241	180	121	86	66
8 OPzV 800	NGA6020800HS0FA	1059	975	745	511	317	236	159	115	82
10 OPzV 1000	NGA6021000HS0FA	1252	1143	908	633	401	298	199	135	103
12 OPzV 1200	NGA6021200HS0FA	1398	1287	1061	754	487	360	240	166	123
12 OPzV 1500	NGA6021500HS0FA	1536	1437	1194	897	606	453	301	206	155
16 OPzV 2000	NGA6022000HS0FA	2048	1916	1592	1195	808	604	401	284	207
20 OPzV 2500	NGA6022500HS0FA	2560	2395	1990	1562	982	731	489	324	258
24 OPzV 3000	NGA6023000HS0FA	3072	2874	2388	1874	1178	877	587	391	309

A600 WE

1.90 V/C – Discharge in A at 20°C

Type	Part number	10min	15min	30min	1h	2h	3h	5h	8h	10h
4 OPzV 200 WE	NGA6020200HS0FB	138	131	107	84	55	42	28	20	17
5 OPzV 250 WE	NGA6020250HS0FB	173	164	134	105	69	52	35	25	21
6 OPzV 300 WE	NGA6020300HS0FB	208	197	161	125	82	63	42	30	26
5 OPzV 350 WE	NGA6020350HS0FB	212	199	167	129	90	72	51	35	30
6 OPzV 420 WE	NGA6020420HS0FB	215	201	173	142	102	83	61	42	36
7 OPzV 490 WE	NGA6020490HS0FB	218	210	187	155	115	95	71	49	42
6 OPzV 600 WE	NGA6020600HS0FB	224	216	198	167	128	108	83	59	51
8 OPzV 800 WE	NGA6020800HS0FB	346	328	296	252	182	151	112	79	68
10 OPzV 1000 WE	NGA6021000HS0FB	397	380	350	297	221	186	139	98	85
12 OPzV 1200 WE	NGA6021200HS0FB	448	433	404	343	259	221	166	118	102
12 OPzV 1500 WE	NGA6021500HS0FB	561	543	482	408	314	267	193	144	128

1.87 V/C – Discharge in A at 20°C

Type	Part number	10min	15min	30min	1h	2h	3h	5h	8h	10h
4 OPzV 200 WE	NGA6020200HS0FB	157	147	124	90	62	46	31	21	18
5 OPzV 250 WE	NGA6020250HS0FB	196	184	155	113	77	58	39	27	23
6 OPzV 300 WE	NGA6020300HS0FB	235	220	186	136	92	70	46	32	27
5 OPzV 350 WE	NGA6020350HS0FB	238	222	190	147	102	79	56	38	32
6 OPzV 420 WE	NGA6020420HS0FB	261	242	208	168	117	92	67	45	38
7 OPzV 490 WE	NGA6020490HS0FB	284	262	227	188	132	105	78	53	44
6 OPzV 600 WE	NGA6020600HS0FB	304	280	244	209	148	119	91	63	54
8 OPzV 800 WE	NGA6020800HS0FB	470	421	352	302	209	167	123	85	72
10 OPzV 1000 WE	NGA6021000HS0FB	485	449	394	351	250	204	153	106	90
12 OPzV 1200 WE	NGA6021200HS0FB	500	476	436	399	290	241	184	127	108
12 OPzV 1500 WE	NGA6021500HS0FB	654	614	540	461	347	290	217	155	135

1.83 V/C – Discharge in A at 20°C

Type	Part number	10min	15min	30min	1h	2h	3h	5h	8h	10h
4 OPzV 200 WE	NGA6020200HS0FB	200	179	141	100	68	50	33	23	19
5 OPzV 250 WE	NGA6020250HS0FB	243	214	176	125	86	63	42	28	24
6 OPzV 300 WE	NGA6020300HS0FB	292	257	211	150	103	75	50	34	29
5 OPzV 350 WE	NGA6020350HS0FB	299	265	216	165	115	87	62	40	33
6 OPzV 420 WE	NGA6020420HS0FB	359	318	259	199	138	105	74	48	40
7 OPzV 490 WE	NGA6020490HS0FB	398	352	282	232	161	122	86	57	47
6 OPzV 600 WE	NGA6020600HS0FB	403	354	287	239	170	134	101	68	57
8 OPzV 800 WE	NGA6020800HS0FB	551	511	434	334	237	184	136	91	76
10 OPzV 1000 WE	NGA6021000HS0FB	658	596	510	410	294	229	169	113	95
12 OPzV 1200 WE	NGA6021200HS0FB	771	698	573	482	349	274	202	136	114
12 OPzV 1500 WE	NGA6021500HS0FB	801	731	638	525	388	317	240	167	143

A600 WE

1.80 V/C – Discharge in A at 20°C										
Type	Part number	10min	15min	30min	1h	2h	3h	5h	8h	10h
4 OPzV 200 WE	NGA6020200HS0FB	224	198	149	108	72	52	35	24	20
5 OPzV 250 WE	NGA6020250HS0FB	277	246	186	135	89	65	43	30	25
6 OPzV 300 WE	NGA6020300HS0FB	332	295	223	162	107	78	52	35	30
5 OPzV 350 WE	NGA6020350HS0FB	340	306	236	178	123	92	63	42	35
6 OPzV 420 WE	NGA6020420HS0FB	409	367	283	214	147	110	76	51	42
7 OPzV 490 WE	NGA6020490HS0FB	453	407	313	250	172	129	89	59	49
6 OPzV 600 WE	NGA6020600HS0FB	457	409	323	259	186	143	104	71	60
8 OPzV 800 WE	NGA6020800HS0FB	600	586	486	363	254	194	138	95	80
10 OPzV 1000 WE	NGA6021000HS0FB	729	697	570	441	318	243	173	118	100
12 OPzV 1200 WE	NGA6021200HS0FB	865	800	666	522	382	293	209	142	120
12 OPzV 1500 WE	NGA6021500HS0FB	889	827	715	589	434	342	256	176	150

1.75 V/C – Discharge in A at 20°C										
Type	Part number	10min	15min	30min	1h	2h	3h	5h	8h	10h
4 OPzV 200 WE	NGA6020200HS0FB	261	228	166	116	74	53	35	24	20
5 OPzV 250 WE	NGA6020250HS0FB	302	285	207	144	92	67	44	30	25
6 OPzV 300 WE	NGA6020300HS0FB	362	342	248	173	111	80	53	36	30
5 OPzV 350 WE	NGA6020350HS0FB	365	345	267	194	131	96	65	43	35
6 OPzV 420 WE	NGA6020420HS0FB	438	414	320	233	157	116	78	51	42
7 OPzV 490 WE	NGA6020490HS0FB	472	445	355	272	183	135	91	60	49
6 OPzV 600 WE	NGA6020600HS0FB	477	451	376	287	206	154	106	72	61
8 OPzV 800 WE	NGA6020800HS0FB	740	688	563	401	275	206	141	96	81
10 OPzV 1000 WE	NGA6021000HS0FB	887	817	661	489	348	260	177	120	101
12 OPzV 1200 WE	NGA6021200HS0FB	956	896	767	583	423	315	214	144	121
12 OPzV 1500 WE	NGA6021500HS0FB	1011	988	847	662	490	374	264	180	152

1.70 V/C – Discharge in A at 20°C										
Type	Part number	10min	15min	30min	1h	2h	3h	5h	8h	10h
4 OPzV 200 WE	NGA6020200HS0FB	296	255	189	118	74	54	35	24	20
5 OPzV 250 WE	NGA6020250HS0FB	345	302	237	147	93	67	44	30	26
6 OPzV 300 WE	NGA6020300HS0FB	414	362	284	177	112	81	53	36	31
5 OPzV 350 WE	NGA6020350HS0FB	418	371	300	205	135	99	66	43	36
6 OPzV 420 WE	NGA6020420HS0FB	493	446	360	245	162	118	79	52	43
7 OPzV 490 WE	NGA6020490HS0FB	517	494	398	286	189	138	92	60	50
6 OPzV 600 WE	NGA6020600HS0FB	521	500	412	314	218	161	108	73	61
8 OPzV 800 WE	NGA6020800HS0FB	856	788	640	437	288	212	143	97	82
10 OPzV 1000 WE	NGA6021000HS0FB	1018	935	742	536	366	268	179	121	102
12 OPzV 1200 WE	NGA6021200HS0FB	1112	1029	843	632	446	326	216	146	122
12 OPzV 1500 WE	NGA6021500HS0FB	1208	1138	954	734	530	396	271	182	153

A600 WE

1.65 V/C – Discharge in A at 20°C

Type	Part number	10min	15min	30min	1h	2h	3h	5h	8h	10h
4 OPzV 200 WE	NGA6020200HS0FB	325	275	197	118	75	54	35	24	21
5 OPzV 250 WE	NGA6020250HS0FB	379	327	245	148	93	67	44	30	26
6 OPzV 300 WE	NGA6020300HS0FB	455	392	294	178	112	81	53	36	31
5 OPzV 350 WE	NGA6020350HS0FB	464	411	328	213	137	100	66	43	36
6 OPzV 420 WE	NGA6020420HS0FB	557	493	394	255	165	120	79	52	43
7 OPzV 490 WE	NGA6020490HS0FB	607	546	436	298	192	140	92	61	50
6 OPzV 600 WE	NGA6020600HS0FB	611	557	482	338	225	164	108	73	62
8 OPzV 800 WE	NGA6020800HS0FB	930	854	691	469	295	216	143	97	82
10 OPzV 1000 WE	NGA6021000HS0FB	1101	1012	832	580	374	273	179	122	103
12 OPzV 1200 WE	NGA6021200HS0FB	1225	1123	961	690	456	330	216	147	124
12 OPzV 1500 WE	NGA6021500HS0FB	1332	1236	1030	809	557	410	271	184	155

1.60 V/C – Discharge in A at 20°C

Type	Part number	10min	15min	30min	1h	2h	3h	5h	8h	10h
4 OPzV 200 WE	NGA6020200HS0FB	356	297	206	119	75	54	35	24	21
5 OPzV 250 WE	NGA6020250HS0FB	420	357	257	148	94	68	44	30	26
6 OPzV 300 WE	NGA6020300HS0FB	504	429	308	178	113	81	53	37	31
5 OPzV 350 WE	NGA6020350HS0FB	510	449	344	216	139	100	66	44	36
6 OPzV 420 WE	NGA6020420HS0FB	612	538	413	260	166	120	79	52	44
7 OPzV 490 WE	NGA6020490HS0FB	673	597	457	303	194	140	92	61	51
6 OPzV 600 WE	NGA6020600HS0FB	677	619	506	350	227	165	108	74	62
8 OPzV 800 WE	NGA6020800HS0FB	1059	968	723	485	298	217	143	98	83
10 OPzV 1000 WE	NGA6021000HS0FB	1252	1134	880	602	377	274	179	123	104
12 OPzV 1200 WE	NGA6021200HS0FB	1398	1277	1029	716	458	331	216	148	125
12 OPzV 1500 WE	NGA6021500HS0FB	1536	1426	1158	852	569	416	271	185	156

A600 block

1.87 V/C – Discharge in W/block at 20°C

Type	Part number	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	24h
12 V 2 OPzV 100	NGA6120100HS0FA	1092	978	858	726	490	329	247	200	170	148	118	98	46
12 V 3 OPzV 150	NGA6120150HS0FA	1566	1422	1218	1032	720	491	370	301	255	221	177	146	70
6 V 4 OPzV 200	NGA6060200HS0FA	999	915	774	654	468	324	247	201	171	148	118	98	46
6 V 6 OPzV 300	NGA6060300HS0FA	1500	1341	1206	918	687	480	372	300	256	222	177	147	69

1.83 V/C – Discharge in W/block at 20°C

Type	Part number	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	24h
12 V 2 OPzV 100	NGA6120100HS0FA	1236	1068	984	792	536	347	261	211	179	155	124	101	48
12 V 3 OPzV 150	NGA6120150HS0FA	1788	1554	1398	1146	786	517	392	316	268	233	187	153	71
6 V 4 OPzV 200	NGA6060200HS0FA	1131	999	900	729	516	342	261	211	179	155	124	102	48
6 V 6 OPzV 300	NGA6060300HS0FA	1551	1374	1227	1056	756	507	393	315	268	231	183	153	72

1.80 V/C – Discharge in W/block at 20°C

Type	Part number	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	24h
12 V 2 OPzV 100	NGA6120100HS0FA	1368	1188	1062	834	587	364	276	173	185	160	127	106	49
12 V 3 OPzV 150	NGA6120150HS0FA	1968	1716	1548	1212	864	542	415	329	277	240	191	159	73
6 V 4 OPzV 200	NGA6060200HS0FA	1254	1098	993	816	567	363	277	220	185	160	128	106	49
6 V 6 OPzV 300	NGA6060300HS0FA	1704	1533	1368	1188	831	537	414	330	277	240	192	159	73

1.75 V/C – Discharge in W/block at 20°C

Type	Part number	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	24h
12 V 2 OPzV 100	NGA6120100HS0FA	1470	1314	1122	894	618	377	280	223	188	163	128	106	49
12 V 3 OPzV 150	NGA6120150HS0FA	2112	1902	1578	1296	912	562	419	335	283	244	193	159	73
6 V 4 OPzV 200	NGA6060200HS0FA	1335	1206	999	834	597	372	280	224	189	163	129	106	49
6 V 6 OPzV 300	NGA6060300HS0FA	1827	1695	1383	1221	882	549	420	333	284	244	193	159	73

1.70 V/C – Discharge in W/block at 20°C

Type	Part number	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	24h
12 V 2 OPzV 100	NGA6120100HS0FA	1560	1422	1290	972	648	400	284	226	190	163	129	106	49
12 V 3 OPzV 150	NGA6120150HS0FA	2262	2058	1848	1410	948	593	427	339	285	245	193	159	73
6 V 4 OPzV 200	NGA6060200HS0FA	1428	1314	1170	918	627	390	284	225	190	163	129	106	49
6 V 6 OPzV 300	NGA6060300HS0FA	2037	1854	1650	1347	921	582	426	336	284	244	193	159	73

1.65 V/C – Discharge in W/block at 20°C

Type	Part number	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	24h
12 V 2 OPzV 100	NGA6120100HS0FA	1686	1512	1344	990	648	400	284	226	190	163	129	106	49
12 V 3 OPzV 150	NGA6120150HS0FA	2454	2196	1944	1422	948	593	427	339	285	245	193	159	73
6 V 4 OPzV 200	NGA6060200HS0FA	1575	1386	1230	933	627	390	284	225	190	163	129	106	49
6 V 6 OPzV 300	NGA6060300HS0FA	2211	1974	1743	1368	921	582	426	336	284	244	193	159	73

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1.90 V/C – Discharge in W/cell at 20°C

Type	Part number	3min	5min	10min	15min	20min	30min	60min	90min
4 OPzV 200	NGA6020200HS0FA	283	271	252	239	230	212	165	135
5 OPzV 250	NGA6020250HS0FA	354	339	315	299	288	265	207	168
6 OPzV 300	NGA6020300HS0FA	404	386	360	341	328	302	236	192
5 OPzV 350	NGA6020350HS0FA	425	406	379	359	346	318	248	202
6 OPzV 420	NGA6020420HS0FA	457	441	410	390	379	357	274	230
7 OPzV 490	NGA6020490HS0FA	533	515	478	455	442	417	320	268
6 OPzV 600	NGA6020600HS0FA	558	532	500	477	458	420	334	271
8 OPzV 800	NGA6020800HS0FA	933	869	783	737	702	653	577	537
10 OPzV 1000	NGA6021000HS0FA	958	897	816	773	740	695	625	580
12 OPzV 1200	NGA6021200HS0FA	983	926	850	809	779	738	673	624
12 OPzV 1500	NGA6021500HS0FA	1021	968	900	862	837	802	746	688
16 OPzV 2000	NGA6022000HS0FA	1285	1233	1166	1128	1103	1067	1009	977
20 OPzV 2500	NGA6022500HS0FA	1606	1541	1457	1411	1378	1334	1261	1221
24 OPzV 3000	NGA6023000HS0FA	1927	1849	1749	1693	1654	1601	1514	1465

1.87 V/C – Discharge in W/cell at 20°C

Type	Part number	3min	5min	10min	15min	20min	30min	60min	90min
4 OPzV 200	NGA6020200HS0FA	341	323	289	268	252	235	185	149
5 OPzV 250	NGA6020250HS0FA	426	404	361	335	315	294	232	186
6 OPzV 300	NGA6020300HS0FA	485	461	412	382	359	335	264	212
5 OPzV 350	NGA6020350HS0FA	511	485	433	402	378	353	278	223
6 OPzV 420	NGA6020420HS0FA	526	488	457	426	404	381	312	252
7 OPzV 490	NGA6020490HS0FA	590	569	534	496	472	444	364	294
6 OPzV 600	NGA6020600HS0FA	642	611	570	535	508	487	431	348
8 OPzV 800	NGA6020800HS0FA	1086	1029	921	849	801	738	610	544
10 OPzV 1000	NGA6021000HS0FA	1122	1061	960	892	841	780	660	600
12 OPzV 1200	NGA6021200HS0FA	1157	1092	1000	935	881	822	710	657
12 OPzV 1500	NGA6021500HS0FA	1211	1140	1059	999	942	885	785	742
16 OPzV 2000	NGA6022000HS0FA	1843	1746	1649	1552	1455	1358	1187	1065
20 OPzV 2500	NGA6022500HS0FA	2304	2183	2061	1940	1819	1698	1484	1331
24 OPzV 3000	NGA6023000HS0FA	2765	2619	2474	2328	2183	2037	1781	1597

1.83 V/C – Discharge in W/cell at 20°C

Type	Part number	3min	5min	10min	15min	20min	30min	60min	90min
4 OPzV 200	NGA6020200HS0FA	397	376	349	312	289	259	205	163
5 OPzV 250	NGA6020250HS0FA	496	470	436	390	361	323	257	204
6 OPzV 300	NGA6020300HS0FA	565	536	497	445	412	369	293	233
5 OPzV 350	NGA6020350HS0FA	595	564	523	469	433	388	308	245
6 OPzV 420	NGA6020420HS0FA	612	578	539	476	454	417	354	282
7 OPzV 490	NGA6020490HS0FA	714	674	607	555	530	486	413	329
6 OPzV 600	NGA6020600HS0FA	779	768	717	671	624	560	482	416
8 OPzV 800	NGA6020800HS0FA	1167	1136	1066	991	921	829	677	579
10 OPzV 1000	NGA6021000HS0FA	1295	1245	1152	1066	992	895	739	645
12 OPzV 1200	NGA6021200HS0FA	1423	1354	1238	1140	1063	961	801	711
12 OPzV 1500	NGA6021500HS0FA	1615	1518	1368	1251	1171	1060	894	810
16 OPzV 2000	NGA6022000HS0FA	2086	2018	1940	1843	1765	1649	1406	1200
20 OPzV 2500	NGA6022500HS0FA	2607	2522	2425	2304	2207	2061	1758	1500
24 OPzV 3000	NGA6023000HS0FA	3128	3026	2910	2765	2648	2474	2109	1800

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1.80 V/C – Discharge in W/cell at 20°C									
Type	Part number	3min	5min	10min	15min	20min	30min	60min	90min
4 OPzV 200	NGA6020200HS0FA	442	420	378	349	320	279	218	172
5 OPzV 250	NGA6020250HS0FA	552	525	472	436	400	348	273	215
6 OPzV 300	NGA6020300HS0FA	629	599	538	497	456	397	311	245
5 OPzV 350	NGA6020350HS0FA	662	630	567	523	480	418	327	258
6 OPzV 420	NGA6020420HS0FA	721	687	602	545	502	451	375	302
7 OPzV 490	NGA6020490HS0FA	841	802	702	636	586	526	438	352
6 OPzV 600	NGA6020600HS0FA	842	816	785	753	705	630	498	449
8 OPzV 800	NGA6020800HS0FA	1239	1192	1124	1067	1006	892	727	608
10 OPzV 1000	NGA6021000HS0FA	1412	1364	1274	1203	1134	1009	808	686
12 OPzV 1200	NGA6021200HS0FA	1584	1536	1424	1339	1263	1125	889	763
12 OPzV 1500	NGA6021500HS0FA	1843	1795	1649	1542	1455	1300	1011	880
16 OPzV 2000	NGA6022000HS0FA	2328	2241	2153	2086	1989	1892	1564	1296
20 OPzV 2500	NGA6022500HS0FA	2910	2801	2692	2607	2486	2364	1955	1620
24 OPzV 3000	NGA6023000HS0FA	3492	3361	3230	3128	2983	2837	2346	1944
1.75 V/C – Discharge in W/cell at 20°C									
Type	Part number	3min	5min	10min	15min	20min	30min	60min	90min
4 OPzV 200	NGA6020200HS0FA	485	473	429	390	370	313	235	182
5 OPzV 250	NGA6020250HS0FA	607	592	536	488	462	392	293	227
6 OPzV 300	NGA6020300HS0FA	692	675	611	556	517	446	334	259
5 OPzV 350	NGA6020350HS0FA	728	710	643	585	555	470	352	273
6 OPzV 420	NGA6020420HS0FA	787	754	698	630	578	494	391	325
7 OPzV 490	NGA6020490HS0FA	918	880	814	735	674	576	457	380
6 OPzV 600	NGA6020600HS0FA	945	935	884	835	807	728	551	482
8 OPzV 800	NGA6020800HS0FA	1464	1432	1328	1242	1187	1041	783	648
10 OPzV 1000	NGA6021000HS0FA	1642	1597	1484	1391	1324	1181	897	744
12 OPzV 1200	NGA6021200HS0FA	1819	1761	1639	1540	1462	1322	1010	840
12 OPzV 1500	NGA6021500HS0FA	2086	2008	1872	1764	1668	1533	1181	984
16 OPzV 2000	NGA6022000HS0FA	2596	2525	2435	2347	2289	2134	1803	1452
20 OPzV 2500	NGA6022500HS0FA	3245	3156	3043	2934	2862	2668	2254	1815
24 OPzV 3000	NGA6023000HS0FA	3894	3787	3652	3521	3434	3201	2704	2178
1.70 V/C – Discharge in W/cell at 20°C									
Type	Part number	3min	5min	10min	15min	20min	30min	60min	90min
4 OPzV 200	NGA6020200HS0FA	543	515	473	430	393	343	245	186
5 OPzV 250	NGA6020250HS0FA	679	644	591	538	491	428	306	233
6 OPzV 300	NGA6020300HS0FA	774	734	674	613	560	488	349	266
5 OPzV 350	NGA6020350HS0FA	815	772	709	646	589	514	367	280
6 OPzV 420	NGA6020420HS0FA	914	866	786	727	671	567	411	335
7 OPzV 490	NGA6020490HS0FA	1066	1010	917	848	783	662	479	391
6 OPzV 600	NGA6020600HS0FA	1103	1050	982	938	874	806	596	492
8 OPzV 800	NGA6020800HS0FA	1625	1559	1478	1384	1284	1155	827	674
10 OPzV 1000	NGA6021000HS0FA	1807	1745	1642	1546	1444	1307	971	788
12 OPzV 1200	NGA6021200HS0FA	1989	1932	1806	1707	1603	1460	1115	902
12 OPzV 1500	NGA6021500HS0FA	2263	2212	2052	1950	1843	1688	1330	1073
16 OPzV 2000	NGA6022000HS0FA	2761	2716	2638	2551	2483	2335	1965	1571
20 OPzV 2500	NGA6022500HS0FA	3451	3395	3298	3189	3104	2919	2456	1963
24 OPzV 3000	NGA6023000HS0FA	4000	4000	3958	3827	3725	3503	2948	2356

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1.65 V/C – Discharge in W/cell at 20°C

Type	Part number	3min	5min	10min	15min	20min	30min	60min	90min
4 OPzV 200	NGA6020200HS0FA	605	573	511	469	421	363	249	187
5 OPzV 250	NGA6020250HS0FA	756	716	639	586	526	454	311	234
6 OPzV 300	NGA6020300HS0FA	862	816	728	668	600	517	354	267
5 OPzV 350	NGA6020350HS0FA	907	859	767	703	632	544	373	281
6 OPzV 420	NGA6020420HS0FA	971	938	852	788	731	617	425	340
7 OPzV 490	NGA6020490HS0FA	1133	1094	994	919	853	720	495	396
6 OPzV 600	NGA6020600HS0FA	1162	1136	1074	1002	966	846	629	498
8 OPzV 800	NGA6020800HS0FA	1830	1767	1589	1491	1390	1233	856	687
10 OPzV 1000	NGA6021000HS0FA	2045	1977	1798	1685	1572	1416	1026	817
12 OPzV 1200	NGA6021200HS0FA	2261	2187	2007	1879	1755	1599	1196	947
12 OPzV 1500	NGA6021500HS0FA	2500	2500	2320	2170	2028	1874	1451	1141
16 OPzV 2000	NGA6022000HS0FA	3000	3000	2910	2813	2716	2516	2090	1654
20 OPzV 2500	NGA6022500HS0FA	3839	3752	3638	3516	3395	3145	2612	2068
24 OPzV 3000	NGA6023000HS0FA	4000	4000	4000	4000	4000	3775	3134	2481

1.60 V/C – Discharge in W/cell at 20°C

Type	Part number	3min	5min	10min	15min	20min	30min	60min	90min
4 OPzV 200	NGA6020200HS0FA	641	616	539	491	443	373	250	188
5 OPzV 250	NGA6020250HS0FA	801	770	674	614	554	466	312	235
6 OPzV 300	NGA6020300HS0FA	913	878	768	700	632	531	356	267
5 OPzV 350	NGA6020350HS0FA	961	924	809	737	665	559	374	281
6 OPzV 420	NGA6020420HS0FA	1048	1008	915	826	769	647	432	341
7 OPzV 490	NGA6020490HS0FA	1222	1176	1068	963	897	755	504	398
6 OPzV 600	NGA6020600HS0FA	1299	1255	1152	1077	1002	897	650	501
8 OPzV 800	NGA6020800HS0FA	2033	1909	1743	1573	1482	1273	874	694
10 OPzV 1000	NGA6021000HS0FA	2248	2141	1965	1794	1692	1470	1058	835
12 OPzV 1200	NGA6021200HS0FA	2462	2372	2188	2015	1901	1666	1243	975
12 OPzV 1500	NGA6021500HS0FA	2500	2500	2500	2346	2216	1960	1519	1186
16 OPzV 2000	NGA6022000HS0FA	3000	3000	2996	2920	2852	2694	2207	1716
20 OPzV 2500	NGA6022500HS0FA	3989	3880	3745	3650	3565	3368	2759	2145
24 OPzV 3000	NGA6023000HS0FA	4000	4000	4000	4000	4000	4000	3310	2574

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1.90 V/C – Discharge in W/cell at 20°C									
Type	Part number	3min	5min	10min	15min	20min	30min	60min	90min
4 OPzV 200 WE	NGA6020200HS0FB	283	271	252	239	230	212	165	135
5 OPzV 250 WE	NGA6020250HS0FB	354	339	315	299	288	265	207	168
6 OPzV 300 WE	NGA6020300HS0FB	404	386	360	341	328	302	236	192
5 OPzV 350 WE	NGA6020350HS0FB	425	406	379	359	346	318	248	202
6 OPzV 420 WE	NGA6020420HS0FB	457	441	410	390	379	357	274	230
7 OPzV 490 WE	NGA6020490HS0FB	533	515	478	455	442	417	320	268
6 OPzV 600 WE	NGA6020600HS0FB	558	532	500	477	458	420	334	271
8 OPzV 800 WE	NGA6020800HS0FB	933	869	783	737	702	653	577	537
10 OPzV 1000 WE	NGA6021000HS0FB	958	897	816	773	740	695	625	580
12 OPzV 1200 WE	NGA6021200HS0FB	983	926	850	809	779	738	673	624
12 OPzV 1500 WE	NGA6021500HS0FB	1021	968	900	862	837	802	746	688

1.87 V/C – Discharge in W/cell at 20°C									
Type	Part number	3min	5min	10min	15min	20min	30min	60min	90min
4 OPzV 200 WE	NGA6020200HS0FB	341	323	289	268	252	235	185	149
5 OPzV 250 WE	NGA6020250HS0FB	426	404	361	335	315	294	232	186
6 OPzV 300 WE	NGA6020300HS0FB	485	461	412	382	359	335	264	212
5 OPzV 350 WE	NGA6020350HS0FB	511	485	433	402	378	353	278	223
6 OPzV 420 WE	NGA6020420HS0FB	526	488	457	426	404	381	312	252
7 OPzV 490 WE	NGA6020490HS0FB	590	569	534	496	472	444	364	294
6 OPzV 600 WE	NGA6020600HS0FB	642	611	570	535	508	487	431	348
8 OPzV 800 WE	NGA6020800HS0FB	1086	1029	921	849	801	738	610	544
10 OPzV 1000 WE	NGA6021000HS0FB	1122	1061	960	892	841	780	660	600
12 OPzV 1200 WE	NGA6021200HS0FB	1157	1092	1000	935	881	822	710	657
12 OPzV 1500 WE	NGA6021500HS0FB	1211	1140	1059	999	942	885	785	742

1.83 V/C – Discharge in W/cell at 20°C									
Type	Part number	3min	5min	10min	15min	20min	30min	60min	90min
4 OPzV 200 WE	NGA6020200HS0FB	397	376	349	312	289	259	205	163
5 OPzV 250 WE	NGA6020250HS0FB	496	470	436	390	361	323	257	204
6 OPzV 300 WE	NGA6020300HS0FB	565	536	497	445	412	369	293	233
5 OPzV 350 WE	NGA6020350HS0FB	595	564	523	469	433	388	308	245
6 OPzV 420 WE	NGA6020420HS0FB	612	578	539	476	454	417	354	282
7 OPzV 490 WE	NGA6020490HS0FB	714	674	607	555	530	486	413	329
6 OPzV 600 WE	NGA6020600HS0FB	779	768	717	671	624	560	482	416
8 OPzV 800 WE	NGA6020800HS0FB	1167	1136	1066	991	921	829	677	579
10 OPzV 1000 WE	NGA6021000HS0FB	1295	1245	1152	1066	992	895	739	645
12 OPzV 1200 WE	NGA6021200HS0FB	1423	1354	1238	1140	1063	961	801	711
12 OPzV 1500 WE	NGA6021500HS0FB	1615	1518	1368	1251	1171	1060	894	810

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1.80 V/C – Discharge in W/cell at 20°C									
Type	Part number	3min	5min	10min	15min	20min	30min	60min	90min
4 OPzV 200 WE	NGA6020200HS0FB	442	420	378	349	320	279	218	172
5 OPzV 250 WE	NGA6020250HS0FB	552	525	472	436	400	348	273	215
6 OPzV 300 WE	NGA6020300HS0FB	629	599	538	497	456	397	311	245
5 OPzV 350 WE	NGA6020350HS0FB	662	630	567	523	480	418	327	258
6 OPzV 420 WE	NGA6020420HS0FB	721	687	602	545	502	451	375	302
7 OPzV 490 WE	NGA6020490HS0FB	841	802	702	636	586	526	438	352
6 OPzV 600 WE	NGA6020600HS0FB	842	816	785	753	705	630	498	449
8 OPzV 800 WE	NGA6020800HS0FB	1239	1192	1124	1067	1006	892	727	608
10 OPzV 1000 WE	NGA6021000HS0FB	1412	1364	1274	1203	1134	1009	808	686
12 OPzV 1200 WE	NGA6021200HS0FB	1584	1536	1424	1339	1263	1125	889	763
12 OPzV 1500 WE	NGA6021500HS0FB	1843	1795	1649	1542	1455	1300	1011	880

1.75 V/C – Discharge in W/cell at 20°C									
Type	Part number	3min	5min	10min	15min	20min	30min	60min	90min
4 OPzV 200 WE	NGA6020200HS0FB	485	473	429	390	370	313	235	182
5 OPzV 250 WE	NGA6020250HS0FB	607	592	536	488	462	392	293	227
6 OPzV 300 WE	NGA6020300HS0FB	692	675	611	556	517	446	334	259
5 OPzV 350 WE	NGA6020350HS0FB	728	710	643	585	555	470	352	273
6 OPzV 420 WE	NGA6020420HS0FB	787	754	698	630	578	494	391	325
7 OPzV 490 WE	NGA6020490HS0FB	918	880	814	735	674	576	457	380
6 OPzV 600 WE	NGA6020600HS0FB	945	935	884	835	807	728	551	482
8 OPzV 800 WE	NGA6020800HS0FB	1464	1432	1328	1242	1187	1041	783	648
10 OPzV 1000 WE	NGA6021000HS0FB	1642	1597	1484	1391	1324	1181	897	744
12 OPzV 1200 WE	NGA6021200HS0FB	1819	1761	1639	1540	1462	1322	1010	840
12 OPzV 1500 WE	NGA6021500HS0FB	2086	2008	1872	1764	1668	1533	1181	984

1.70 V/C – Discharge in W/cell at 20°C									
Type	Part number	3min	5min	10min	15min	20min	30min	60min	90min
4 OPzV 200 WE	NGA6020200HS0FB	543	515	473	430	393	343	245	186
5 OPzV 250 WE	NGA6020250HS0FB	679	644	591	538	491	428	306	233
6 OPzV 300 WE	NGA6020300HS0FB	774	734	674	613	560	488	349	266
5 OPzV 350 WE	NGA6020350HS0FB	815	772	709	646	589	514	367	280
6 OPzV 420 WE	NGA6020420HS0FB	914	866	786	727	671	567	411	335
7 OPzV 490 WE	NGA6020490HS0FB	1066	1010	917	848	783	662	479	391
6 OPzV 600 WE	NGA6020600HS0FB	1103	1050	982	938	874	806	596	492
8 OPzV 800 WE	NGA6020800HS0FB	1625	1559	1478	1384	1284	1155	827	674
10 OPzV 1000 WE	NGA6021000HS0FB	1807	1745	1642	1546	1444	1307	971	788
12 OPzV 1200 WE	NGA6021200HS0FB	1989	1932	1806	1707	1603	1460	1115	902
12 OPzV 1500 WE	NGA6021500HS0FB	2263	2212	2052	1950	1843	1688	1330	1073

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1.65 V/C – Discharge in W/cell at 20°C									
Type	Part number	3min	5min	10min	15min	20min	30min	60min	90min
4 OPzV 200 WE	NGA6020200HS0FB	605	573	511	469	421	363	249	187
5 OPzV 250 WE	NGA6020250HS0FB	756	716	639	586	526	454	311	234
6 OPzV 300 WE	NGA6020300HS0FB	862	816	728	668	600	517	354	267
5 OPzV 350 WE	NGA6020350HS0FB	907	859	767	703	632	544	373	281
6 OPzV 420 WE	NGA6020420HS0FB	971	938	852	788	731	617	425	340
7 OPzV 490 WE	NGA6020490HS0FB	1133	1094	994	919	853	720	495	396
6 OPzV 600 WE	NGA6020600HS0FB	1162	1136	1074	1002	966	846	629	498
8 OPzV 800 WE	NGA6020800HS0FB	1830	1767	1589	1491	1390	1233	856	687
10 OPzV 1000 WE	NGA6021000HS0FB	2045	1977	1798	1685	1572	1416	1026	817
12 OPzV 1200 WE	NGA6021200HS0FB	2261	2187	2007	1879	1755	1599	1196	947
12 OPzV 1500 WE	NGA6021500HS0FB	2500	2500	2320	2170	2028	1874	1451	1141

1.60 V/C – Discharge in W/cell at 20°C									
Type	Part number	3min	5min	10min	15min	20min	30min	60min	90min
4 OPzV 200 WE	NGA6020200HS0FB	641	616	539	491	443	373	250	188
5 OPzV 250 WE	NGA6020250HS0FB	801	770	674	614	554	466	312	235
6 OPzV 300 WE	NGA6020300HS0FB	913	878	768	700	632	531	356	267
5 OPzV 350 WE	NGA6020350HS0FB	961	924	809	737	665	559	374	281
6 OPzV 420 WE	NGA6020420HS0FB	1048	1008	915	826	769	647	432	341
7 OPzV 490 WE	NGA6020490HS0FB	1222	1176	1068	963	897	755	504	398
6 OPzV 600 WE	NGA6020600HS0FB	1299	1255	1152	1077	1002	897	650	501
8 OPzV 800 WE	NGA6020800HS0FB	2033	1909	1743	1573	1482	1273	874	694
10 OPzV 1000 WE	NGA6021000HS0FB	2248	2141	1965	1794	1692	1470	1058	835
12 OPzV 1200 WE	NGA6021200HS0FB	2462	2372	2188	2015	1901	1666	1243	975
12 OPzV 1500 WE	NGA6021500HS0FB	2500	2500	2500	2346	2216	1960	1519	1186

Exide Technologies Industrial Energy – The Industry Leader.



ABSOLYTE

MARATHON

Sprinter

Classic

Powerfit

Sonnenschein

Exide Technologies Industrial Energy is a global leader in stored electrical energy solutions for all major critical reserve power applications and needs. Standby power applications include communication/data networks, UPS systems for computers and control systems, electrical power generation and distribution systems, as well as a wide range of other industrial standby power applications. With a strong manufacturing base in both North America and Europe and a truly global reach (operations in more than 80 countries) in sales and service, Exide Technologies Industrial Energy is best positioned to satisfy your back up power needs locally as well as all over the world.

Based on over 100 years of technological innovation the Industrial Energy Division leads the industry with the most recognized global standby power brands such as Absolyte, Sonnenschein, Marathon, Sprinter, and Flooded Classic. They have come to symbolize quality, reliability, performance and excellence in all the markets served.

Exide Technologies takes pride in its commitment to a better environment. Its Total Battery Management program, an integrated approach to manufacturing, distributing and recycling of lead acid batteries, has been developed to ensure a safe and responsible life cycle for all of its products.

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