

Industrial Batteries / Network Power

Classic Solar

»Powerful energy storage for
renewable energy systems«



Classic OPzS Solar

Energy storage for outstanding power applications

The Classic OPzS Solar range has been well proven for decades in medium and large power applications. Due to their robustness, long design life and high operational safety they are ideally suitable for use in solar and wind power stations, telecommunications, power distribution companies, railways and many other safety equipment power supplies. The wide range of available capacities and sizes provides a solution for every power need, even in harsh environments.

Your benefits:

- > **Optimised design for renewable energy applications** – highest cycling ability and long life
- > **Special alloy and large electrolyte reserve** – very long topping up intervals
- > **Low maintenance** – saving costs
- > **Completely recyclable** – low CO₂ footprint



Specifications:

- > Nominal capacity (C₁₂₀ at 25 °C): 70.0 - 4600 Ah
- > Very thick tubular positive plates for the most demanding applications
- > Up to 2800 cycles at 60 % depth of discharge (C₁₀) with IU charging profile at 20 °C.
For enhanced performance and for systems ≥ 48 V we recommend IUI charging to reach 3000 cycles and more.
- > Designed in accordance with IEC 61427 and IEC 60896-11
- > Screw connectors for a better contact and reliability
- > Also available in dry-charged version with separate electrolyte
- > High quality transparent containers for easy maintenance



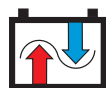
Nominal capacity
70.0 – 4600 Ah



Block battery/
Single cell



Tubular plate



up to 3000*+
cycles at
60 % depth
of discharge



Recyclable



Low
maintenance

*Using IUI charging at 20 °C

Classic OPzS Solar

Technical data

Technical characteristics and data

Type	Part number	Nom. voltage V	Nominal capacity C ₁₂₀ 1.85 Vpc 25 °C Ah	Length (l) max. mm	Width (b/w) max. mm	Height* (h) max. mm	Installed length (L) max. mm	Weight incl. acid approx. kg	Weight acid** approx. kg	Internal resistance mOhm	Short circuit current A	Terminal	Pole pairs
OPzS Solar 190	NVSL020190WC0FA	2	190	105	208	395	115	13.7	5.20	1.45	1400	F-M8	1
OPzS Solar 245	NVSL020245WC0FA	2	245	105	208	395	115	15.2	5.00	1.05	1950	F-M8	1
OPzS Solar 305	NVSL020305WC0FA	2	305	105	208	395	115	16.6	4.60	0.83	2450	F-M8	1
OPzS Solar 380	NVSL020380WC0FA	2	380	126	208	395	136	20.0	5.80	0.72	2850	F-M8	1
OPzS Solar 450	NVSL020450WC0FA	2	450	147	208	395	157	23.3	6.90	0.63	3250	F-M8	1
OPzS Solar 550	NVSL020550WC0FA	2	550	126	208	511	136	26.7	8.10	0.63	3250	F-M8	1
OPzS Solar 660	NVSL020660WC0FA	2	660	147	208	511	157	31.0	9.30	0.56	3650	F-M8	1
OPzS Solar 765	NVSL020765WC0FA	2	765	168	208	511	178	35.4	10.8	0.50	4100	F-M8	1
OPzS Solar 985	NVSL020985WC0FA	2	985	147	208	686	157	43.9	13.0	0.47	4350	F-M8	1
OPzS Solar 1080	NVSL021080WC0FA	2	1080	147	208	686	157	47.2	12.8	0.43	4800	F-M8	1
OPzS Solar 1320	NVSL021320WC0FA	2	1320	212	193	686	222	59.9	17.1	0.30	6800	F-M8	2
OPzS Solar 1410	NVSL021410WC0FA	2	1410	212	193	686	222	63.4	16.8	0.27	7500	F-M8	2
OPzS Solar 1650	NVSL021650WC0FA	2	1650	212	235	686	222	73.2	21.7	0.26	7900	F-M8	2
OPzS Solar 1990	NVSL021990WC0FA	2	1990	212	277	686	222	86.4	26.1	0.23	8900	F-M8	2
OPzS Solar 2350	NVSL022350WC0FA	2	2350	212	277	836	222	108	33.7	0.24	8500	F-M8	2
OPzS Solar 2500	NVSL022500WC0FA	2	2500	212	277	836	222	114	32.7	0.22	9300	F-M8	2
OPzS Solar 3100	NVSL023100WC0FA	2	3100	215	400	812	225	151	50.0	0.16	12800	F-M8	3
OPzS Solar 3350	NVSL023350WC0FA	2	3350	215	400	812	225	158	48.0	0.14	14600	F-M8	3
OPzS Solar 3850	NVSL023850WC0FA	2	3850	215	490	812	225	184	60.0	0.12	17000	F-M8	4
OPzS Solar 4100	NVSL024100WC0FA	2	4100	215	490	812	225	191	58.0	0.11	17800	F-M8	4
OPzS Solar 4600	NVSL024600WC0FA	2	4600	215	580	812	225	217	71.0	0.11	18600	F-M8	4
OPzS Solar 280	NVSL060280WC0FA	6	294	273	204	358	283	41.0	13.0	2.68	2283	F-M8	1
OPzS Solar 350	NVSL060350WC0FA	6	364	381	204	358	391	56.0	20.0	2.39	2800	F-M8	1
OPzS Solar 420	NVSL060420WC0FA	6	417	381	204	358	391	63.0	20.0	1.96	3106	F-M8	1
OPzS Solar 70	NVSL120070WC0FA	12	82.7	273	204	358	283	35.0	15.0	18.1	688	F-M8	1
OPzS Solar 140	NVSL120140WC0FA	12	139	273	204	358	283	45.0	14.0	9.26	1314	F-M8	1
OPzS Solar 210	NVSL120210WC0FA	12	210	381	204	358	391	64.0	19.0	6.46	1884	F-M8	1

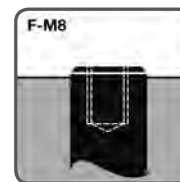
Type	C ₆ 1.75 Vpc	C ₁₀ 1.80 Vpc	C ₁₂ 1.80 Vpc	C ₂₄ 1.80 Vpc	C ₄₈ 1.80 Vpc	C ₇₂ 1.80 Vpc	C ₁₀₀ 1.85 Vpc	C ₁₂₀ 1.85 Vpc	C ₂₄₀ 1.85 Vpc
OPzS Solar 190	122	132	134	145	165	175	185	190	200
OPzS Solar 245	159	173	176	190	215	230	240	245	260
OPzS Solar 305	203	220	224	240	270	285	300	305	320
OPzS Solar 380	250	273	277	300	330	350	370	380	400
OPzS Solar 450	296	325	330	355	395	420	440	450	470
OPzS Solar 550	353	391	398	430	480	515	540	550	580
OPzS Solar 660	422	469	477	515	575	615	645	660	695
OPzS Solar 765	492	546	555	600	670	710	750	765	805
OPzS Solar 985	606	700	710	770	860	920	970	985	1035
OPzS Solar 1080	669	773	784	845	940	1000	1055	1080	1100
OPzS Solar 1320	820	937	950	1030	1150	1230	1295	1320	1385
OPzS Solar 1410	888	1009	1024	1105	1225	1305	1380	1410	1440
OPzS Solar 1650	1024	1174	1190	1290	1440	1540	1620	1650	1730
OPzS Solar 1990	1218	1411	1430	1550	1730	1850	1950	1990	2090
OPzS Solar 2350	1573	1751	1770	1910	2090	2200	2300	2350	2470
OPzS Solar 2500	1667	1854	1875	2015	2215	2335	2445	2500	2600
OPzS Solar 3100	2080	2318	2343	2520	2755	2910	3040	3100	3250
OPzS Solar 3350	2268	2524	2550	2740	2985	3135	3280	3350	3520
OPzS Solar 3850	2592	2884	2915	3135	3430	3615	3765	3850	4040
OPzS Solar 4100	2775	3090	3125	3355	3650	3840	4000	4100	4300
OPzS Solar 4600	3099	3451	3490	3765	4100	4300	4500	4600	4850
OPzS Solar 280	203	206	229	250	296	304	287	294	338
OPzS Solar 350	245	257	284	311	374	383	355	364	424
OPzS Solar 420	284	309	322	354	420	432	408	417	482
OPzS Solar 70	55.0	51.5	63.7	69.4	78.4	79.8	81.0	82.7	92.9
OPzS Solar 140	95.4	103	108	118	141	145	136	139	162
OPzS Solar 210	131	154	162	177	206	217	203	210	234

Capacities in Ah (C₆ – C₂₄₀ at 25 °C)

* Includes installed connector, the above mentioned height can differ depending on the used vent(s).

** Acid density d_N = 1.24 kg/l

Terminal and torque



12 Nm for blocks;
20 Nm for cells

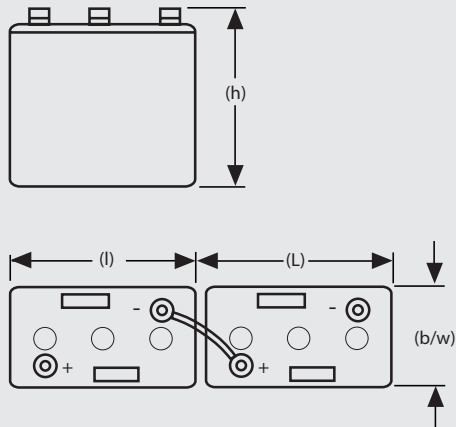
Data is also valid for dry charged version.
Change »W« (Wet) to »D« (Dry) in the part number.
E.g.:

> filled and charged: NVSL120070 W C0FA
> dry charged: NVSL120070 D C0FA

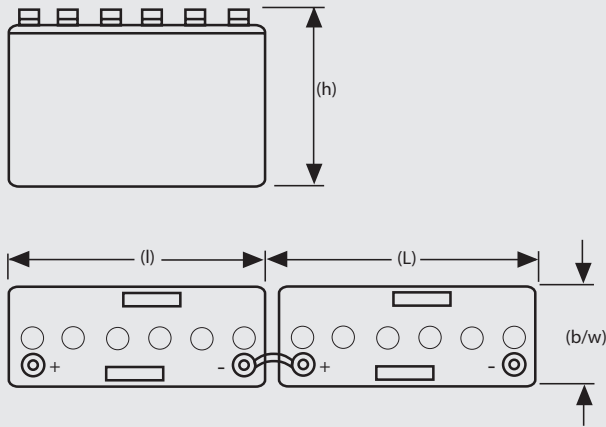
Classic OPzS Solar Drawings

Drawings with terminal position

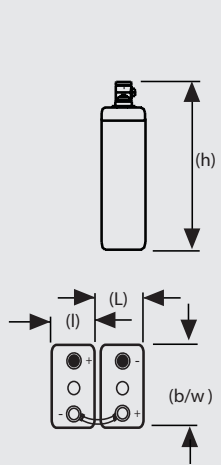
6 V Blocks



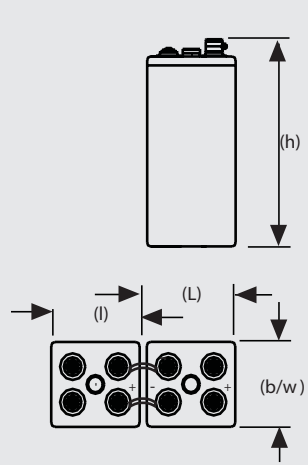
12 V Blocks



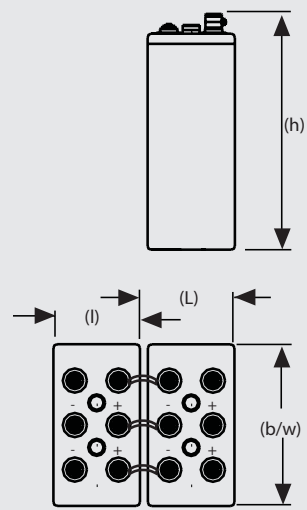
OPzS Solar 190 – OPzS Solar 1080



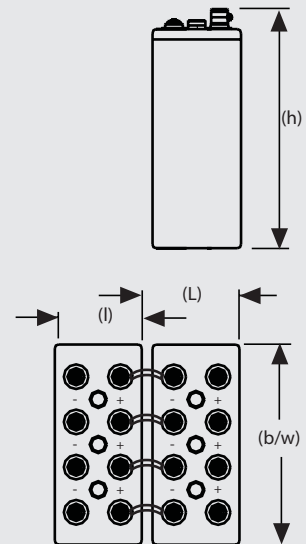
OPzS Solar 1320 – OPzS Solar 2500



OPzS Solar 3100 – OPzS Solar 3350



OPzS Solar 3850 – OPzS Solar 4600



Not to scale!



Exide Technologies, with operations in more than **80 countries**, is one of the world's largest producers and recyclers of lead-acid batteries. Exide Technologies provides a comprehensive and customized range of stored electrical energy solutions. Based on **over 100 years of experience** in the development of innovative technologies, Exide Technologies is an esteemed partner of OEMs and serves the spare parts market for industrial and transportation applications.

GNB® INDUSTRIAL POWER – A division of Exide Technologies – offers an **extensive range of storage products and services**, including solutions for telecommunication systems, railway applications, mining, photovoltaic (solar energy), uninterrupted power supply (UPS), electrical power generation and distribution, fork lifts and electric vehicles.

Exide Technologies takes pride in its commitment to a better **environment**. Its Total Battery Management programme, (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.



»The **next Level** of
Energy Management«

GNB® INDUSTRIAL POWER provides long lasting energy concepts that combine efficiency with flexibility.