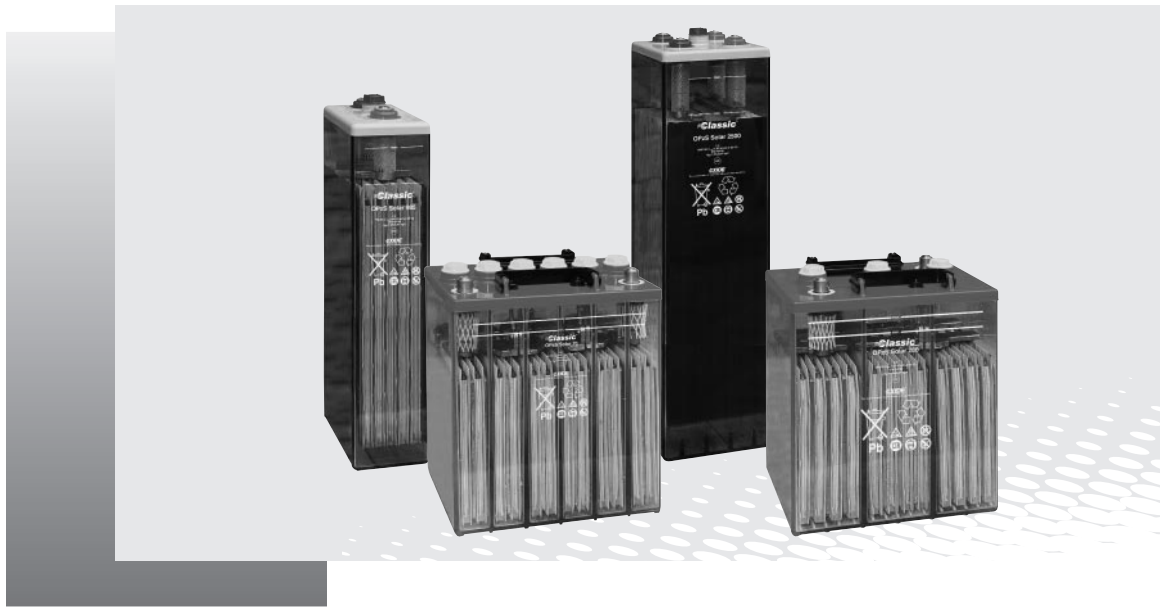
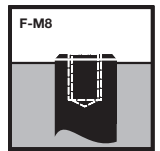
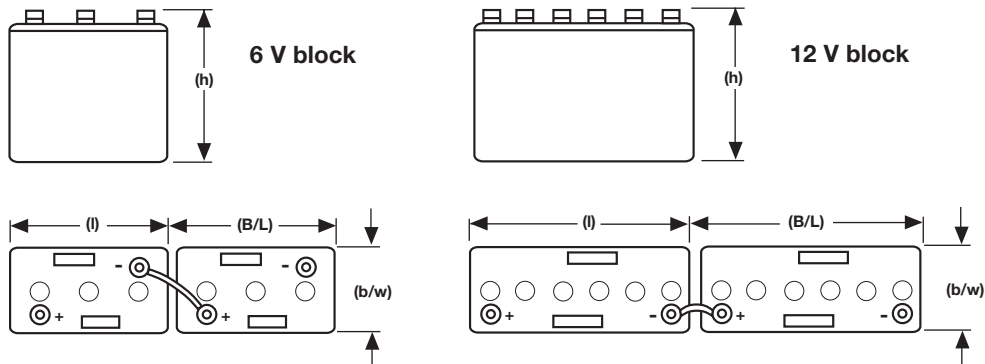


Energy storage for outstanding power applications.

The Classic OPzS Solar range has been well proven for decades in medium and large power requirements. This energy storage battery is a low maintenance lead acid battery with liquid electrolyte. 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.



Drawings with terminal position, terminal and torque



20 Nm

Not to scale!

Technical characteristics and data

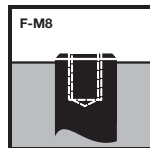
Type	Part number	Nominal voltage V	Nominal capacity C ₁₂₀ 1.85 V/C Ah	Length (l)		Width (b/w)		Height* (h) mm	Installed length (B/L) mm	Weight including acid approx. kg	Weight acid** approx. kg	Internal resistance mΩ	Short circuit current A	Terminal	Pole pairs	Capacities in Ah (C ₆ - C ₂₄₀ at 25°C)									
				max. mm	max. mm	max. mm	max. mm									C ₆ 1.75 V/C	C ₁₀ 1.80 V/C	C ₁₂ 1.80 V/C	C ₂₄ 1.80 V/C	C ₄₈ 1.80 V/C	C ₇₂ 1.80 V/C	C ₁₀₀ 1.85 V/C	C ₁₂₀ 1.85 V/C	C ₂₄₀ 1.85 V/C	
Block																									
OPzS Solar 70	NVSL120070WC0FA	12	70	275	208	385	285	35	15	18.18	688	F-M8	1	55.0	51.5	63.7	69.4	78.4	79.8	83.2	82.7	92.9			
OPzS Solar 140	NVSL120140WC0FA	12	140	275	208	385	285	45	14	9.26	1314	F-M8	1	95.4	103.0	108.2	118.7	141.6	137.8	144.0	139.9	162.3			
OPzS Solar 210	NVSL120210WC0FA	12	210	383	208	385	393	64	19	6.46	1884	F-M8	1	131.4	154.5	150.7	167.0	187.5	196.2	204.5	208.3	234.1			
OPzS Solar 280	NVSL060280WC0FA	6	280	275	208	385	285	41	13	2.68	2283	F-M8	1	203.4	206.0	229.3	250.8	296.2	289.2	301.8	294.0	338.3			
OPzS Solar 350	NVSL060350WC0FA	6	350	383	208	385	393	56	20	2.39	2800	F-M8	1	245.5	257.5	284.0	311.5	374.2	361.2	377.5	364.1	424.5			
OPzS Solar 420	NVSL060420WC0FA	6	420	383	208	385	393	63	20	1.96	3106	F-M8	1	284.3	309.0	322.9	354.6	420.8	410.8	429.4	417.7	482.9			
Cell																									
OPzS Solar 190	NVSL020190WC0FA	2	190	105	208	405	115	13.7	5.2	1.45	1400	F-M8	1	120	128	130	145	165	175	185	190	200			
OPzS Solar 245	NVSL020245WC0FA	2	245	105	208	405	115	15.2	5.0	1.05	1950	F-M8	1	160	169	170	190	215	230	240	245	260			
OPzS Solar 305	NVSL020305WC0FA	2	305	105	208	405	115	16.6	4.6	0.83	2450	F-M8	1	200	216	220	240	270	285	300	305	320			
OPzS Solar 380	NVSL020380WC0FA	2	380	126	208	405	136	20.0	5.8	0.72	2850	F-M8	1	250	267	270	300	330	350	370	380	400			
OPzS Solar 450	NVSL020450WC0FA	2	450	147	208	405	157	23.3	6.9	0.63	3250	F-M8	1	295	319	325	355	395	420	440	450	470			
OPzS Solar 550	NVSL020550WC0FA	2	550	126	208	520	136	26.7	8.1	0.63	3250	F-M8	1	355	391	390	430	480	515	540	550	580			
OPzS Solar 660	NVSL020660WC0FA	2	660	147	208	520	157	31.0	9.3	0.56	3650	F-M8	1	420	468	465	515	575	615	645	660	695			
OPzS Solar 765	NVSL020765WC0FA	2	765	168	208	520	178	35.4	10.8	0.50	4100	F-M8	1	490	545	545	600	670	710	750	765	805			
OPzS Solar 985	NVSL020985WC0FA	2	985	147	208	695	157	43.9	13.0	0.47	4350	F-M8	1	610	700	695	770	860	920	970	985	1035			
OPzS Solar 1080	NVSL021080WC0FA	2	1080	147	208	695	157	47.2	12.8	0.43	4800	F-M8	1	675	772	770	845	940	1000	1055	1080	1100			
OPzS Solar 1320	NVSL021320WC0FA	2	1320	215	193	695	225	59.9	17.1	0.30	6800	F-M8	2	820	937	930	1030	1150	1230	1295	1320	1385			
OPzS Solar 1410	NVSL021410WC0FA	2	1410	215	193	695	225	63.4	16.8	0.27	7500	F-M8	2	895	1009	1005	1105	1225	1305	1380	1410	1440			
OPzS Solar 1650	NVSL021650WC0FA	2	1650	215	235	695	225	73.2	21.7	0.26	7900	F-M8	2	1025	1174	1170	1290	1440	1540	1620	1650	1730			
OPzS Solar 1990	NVSL021990WC0FA	2	1990	215	277	695	225	86.4	26.1	0.23	8900	F-M8	2	1230	1411	1405	1550	1730	1850	1950	1990	2090			
OPzS Solar 2350	NVSL022350WC0FA	2	2350	215	277	845	225	108.0	33.7	0.24	8500	F-M8	2	1575	1751	1740	1910	2090	2200	2300	2350	2470			
OPzS Solar 2500	NVSL022500WC0FA	2	2500	215	277	845	225	114.0	32.7	0.22	9300	F-M8	2	1670	1854	1845	2015	2215	2335	2445	2500	2600			
OPzS Solar 3100	NVSL023100WC0FA	2	3100	215	400	815	225	151.0	50.0	0.16	12800	F-M8	3	2085	2317	2305	2520	2755	2910	3040	3100	3250			
OPzS Solar 3350	NVSL023350WC0FA	2	3350	215	400	815	225	158.0	48.0	0.14	14600	F-M8	3	2275	2523	2510	2740	2985	3135	3280	3350	3520			
OPzS Solar 3850	NVSL023850WC0FA	2	3850	215	490	815	225	184.0	60.0	0.12	17000	F-M8	4	2595	2884	2870	3135	3430	3615	3765	3850	4040			
OPzS Solar 4100	NVSL024100WC0FA	2	4100	215	490	815	225	191.0	58.0	0.11	17800	F-M8	4	2785	3090	3075	3355	3650	3840	4000	4100	4300			
OPzS Solar 4600	NVSL024600WC0FA	2	4600	215	580	815	225	217.0	71.0	0.11	18600	F-M8	4	3100	3450	3435	3765	4100	4300	4500	4600	4850			

*The above mentioned height can differ depending on the used vent(s).

**Acid density $d_N = 1.24 \text{ kg/l}$

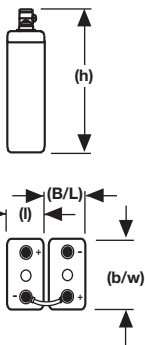
Data are also valid for dry charged version.
Change „W“ (Wet) to „D“ (Dry)
in the part number.
E.g.:
filled and charged NVSL120070 **W** C0FA
dry charged NVSL120070 **D** C0FA

Drawings with terminal position, terminal and torque

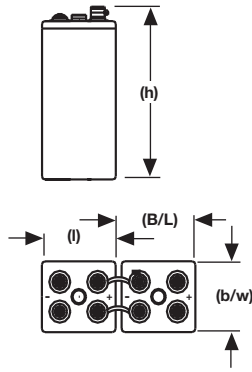


20 Nm

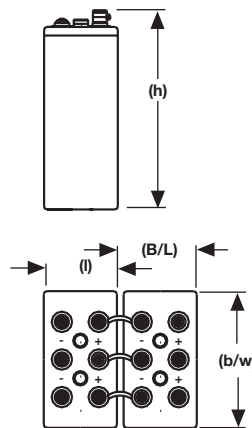
OPzS Solar 190
up to
OPzS Solar 1080



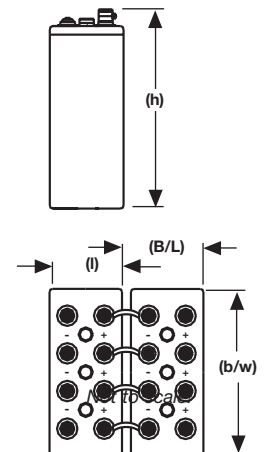
OPzS Solar 1320
up to
OPzS Solar 2500



OPzS Solar 3100
OPzS Solar 3350



OPzS Solar 3850
up to
OPzS Solar 4600



Not to scale!