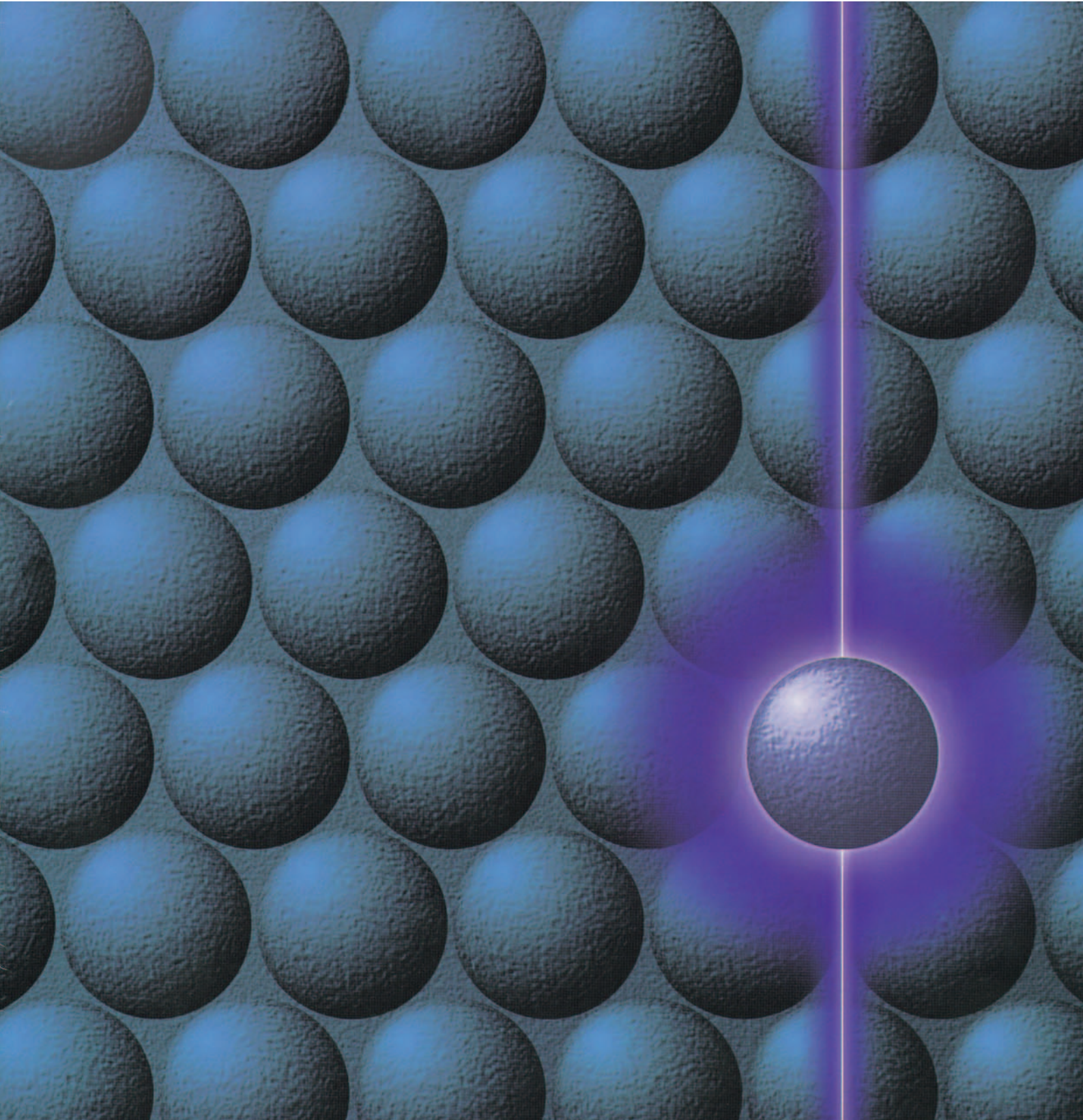




High Quality and Long Life VRLA Battery

SNL SERIES

VRLA Battery Designed for Telecommunications



New Generation Batteries with 6 Revolutionary Features

With the remarkable improvements in information technology (IT), portable applications for the telecommunication's market are becoming much more important. GS-YUASA's SNL battery continues to provide proven performance and reliability to the telecommunication infrastructure worldwide. In response to this demand, GS-YUASA introduces a new 500Ah battery to the popular SNL Series.

Features

1 Long Life Expectancy

Battery life is remarkably increased with the employment of newly designed plates and an optimal electrolyte ratio.
(13~15 years at 25°C)

2 Space Saving

Approximately 35% more space saving versus a conventional battery by utilizing front access terminals and module unit configurations.

3 Simplified Maintenance

Front access terminals make routine service and maintenance calls much easier.

4 Simplified Installation

Modular unit configurations make stacking during installation easier.

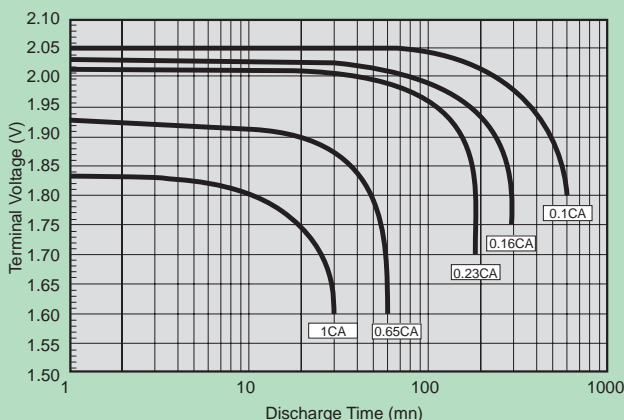
5 High Energy Density

Achieved by using proprietary chemical additives concentrated on the positive plate.

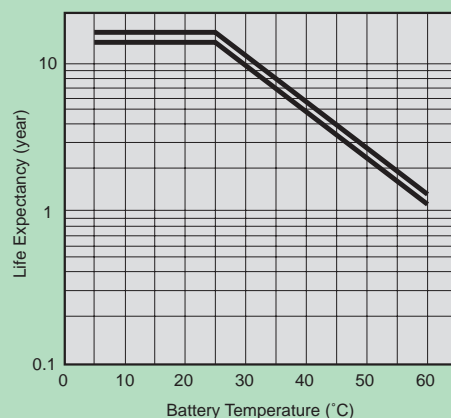
6 Modular Battery Box

Adaptation adds to the space saving characteristics.

Discharge Characteristics (25°C)



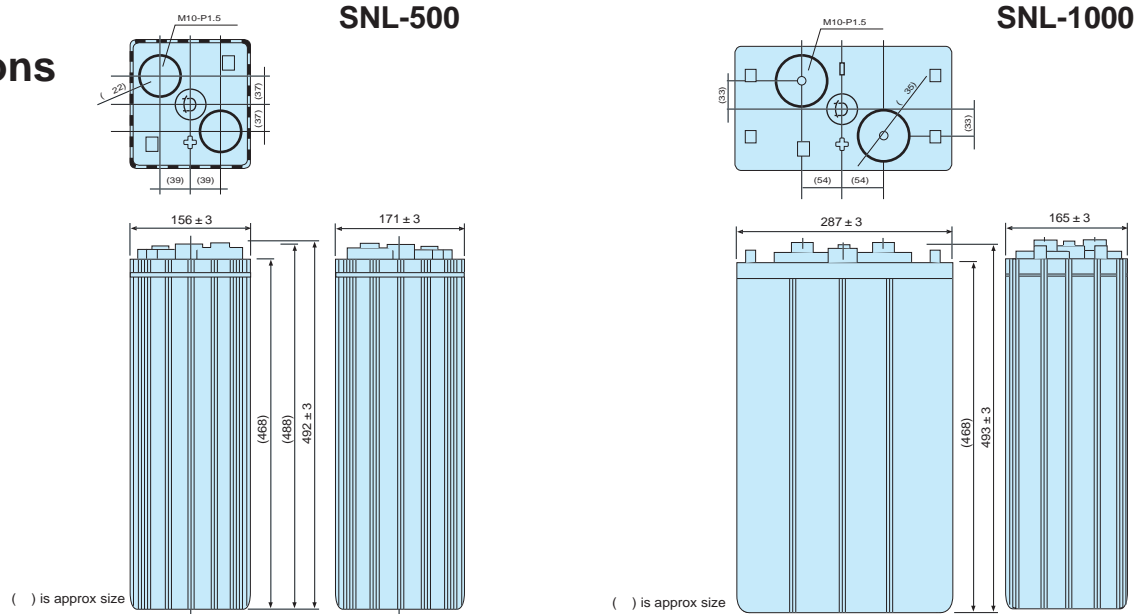
Life Characteristics (Float Charge)



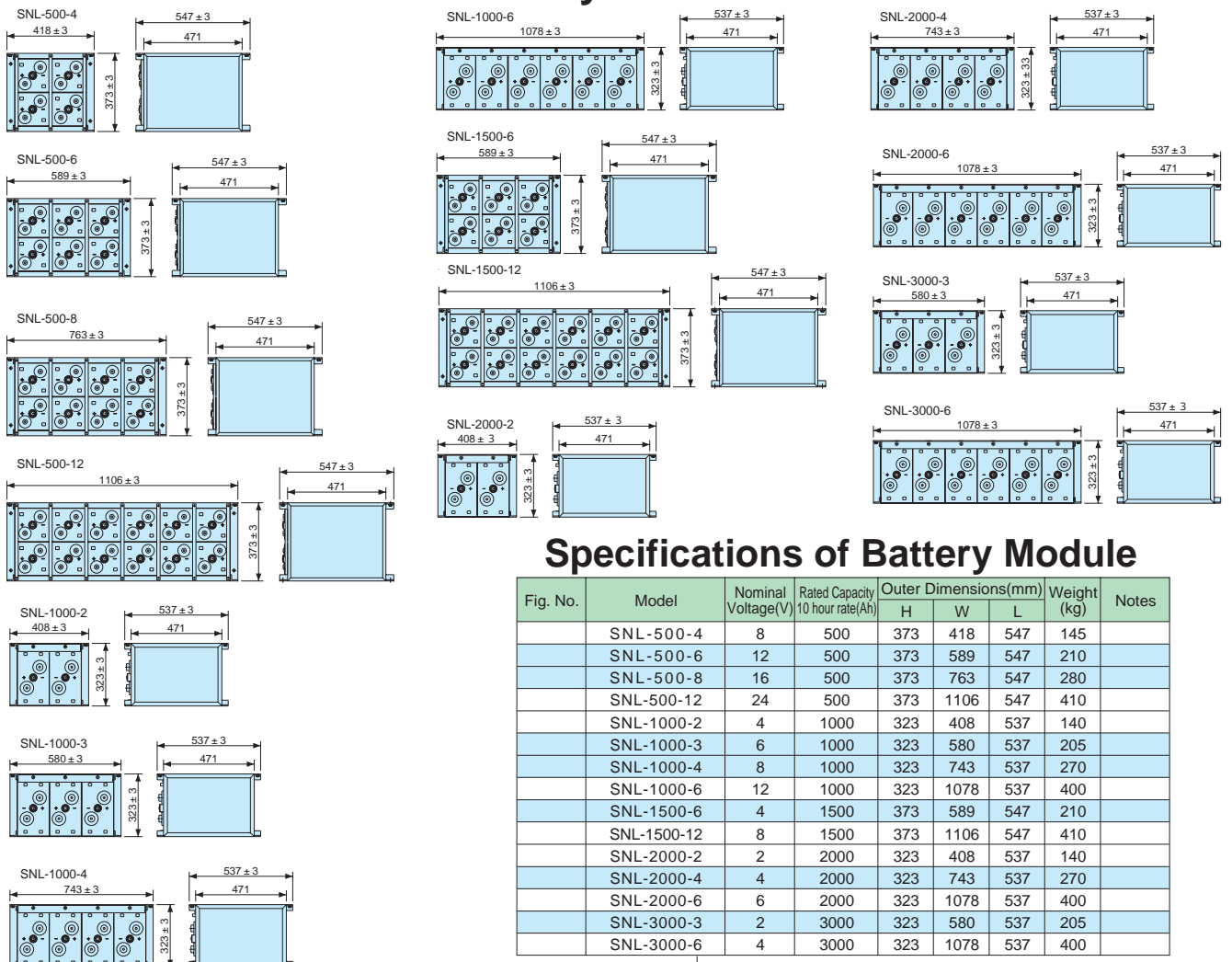
Specifications

Model	Nominal Voltage(V)	Rated Capacity 10 hour rate (Ah)	Outer Dimensions(mm)			Weight (kg)
			H	W	L	
SNL-500	2	500	492	171	156	31
SNL-1000	2	1000	493	165	287	58

Outer Dimensions



Outer Dimensions of Battery Module



Specifications of Battery Module

Fig. No.	Model	Nominal Voltage(V)	Rated Capacity 10 hour rate(Ah)	Outer Dimensions(mm)			Weight (kg)	Notes
				H	W	L		
	SNL-500-4	8	500	373	418	547	145	
	SNL-500-6	12	500	373	589	547	210	
	SNL-500-8	16	500	373	763	547	280	
	SNL-500-12	24	500	373	1106	547	410	
	SNL-1000-2	4	1000	323	408	537	140	
	SNL-1000-3	6	1000	323	580	537	205	
	SNL-1000-4	8	1000	323	743	537	270	
	SNL-1000-6	12	1000	323	1078	537	400	
	SNL-1500-6	4	1500	373	589	547	210	
	SNL-1500-12	8	1500	373	1106	547	410	
	SNL-2000-2	2	2000	323	408	537	140	
	SNL-2000-4	4	2000	323	743	537	270	
	SNL-2000-6	6	2000	323	1078	537	400	
	SNL-3000-3	2	3000	323	580	537	205	
	SNL-3000-6	4	3000	323	1078	537	400	

Number of cell

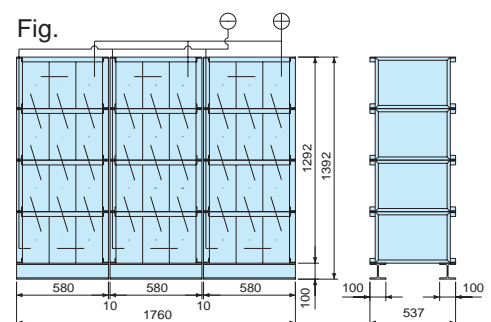
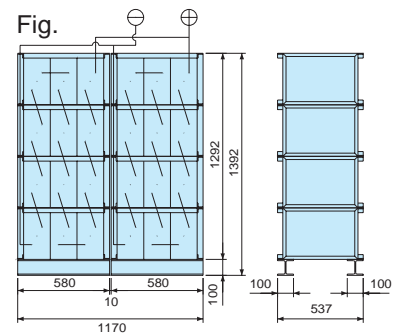
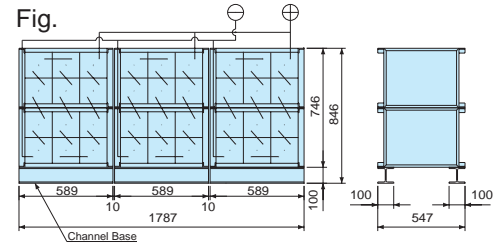
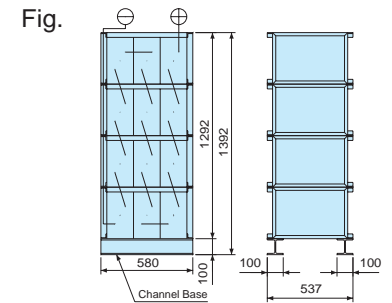
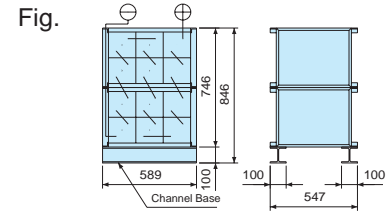
: Standard

Specifications of Assembled Battery

Model	Number of Module	Number of Row	H(mm)	L(mm)	D(mm)	Weight (kg)	Floor Area (m ²)	Floor Pressure (kg/m ²)	Notes
SNLX-500	x 3	1	1219	418	547	450	0.23	1968	
	x 2	1	846	589	547	445	0.32	1381	Fig.
	x 1	1	473	1106	547	445	0.60	736	
SNLX-1000	x 6	1	1069	826	537	855	0.44	1928	
	x 4	1	1392	580	537	840	0.31	2697	Fig.
	x 3	1	1069	743	537	835	0.40	2093	
	x 2	1	746	1078	537	835	0.58	1442	
SNLX-1500	x 6	1	1219	1188	547	1310	0.65	2016	
	x 3	1	1219	1106	547	1270	0.60	2099	
	x 9	1	1219	1274	547	1350	0.70	1937	
	x 6	1	846	1787	547	1335	0.98	1366	Fig.
	x 3	1	473	3338	547	1335	1.83	731	
SNLX-2000	x 12	1	1392	1244	537	1700	0.67	2545	
	x 6	1	1069	1496	537	1670	0.80	2079	
	x 4	1	1392	1078	537	1635	0.58	2824	
	x 12	1	1069	1662	537	1710	0.89	1916	
	x 8	1	1392	1170	537	1680	0.63	2674	Fig.
	x 6	1	1069	1496	537	1670	0.80	2079	
	x 4	1	746	2166	537	1670	1.16	1436	
SNLX-3000	x 12	1	1069	2350	537	2540	1.26	2013	
	x 6	1	1069	2166	537	2470	1.16	2124	
	x 18	1	1069	2498	537	2565	1.34	1912	
	x 12	1	1392	1760	537	2520	0.95	2666	Fig.
	x 9	1	1069	2249	537	2505	1.21	2074	
	x 6	1	746	3254	537	2505	1.75	1434	
SNLX-4000	x 24	2	1392	1244	1214	3400	1.51	2251	
	x 12	2	1069	1496	1214	3340	1.82	1839	
	x 8	2	1392	1078	1214	3270	1.31	2499	
	x 24	2	1069	1662	1214	3420	2.02	1695	
	x 16	2	1392	1170	1214	3360	1.42	2366	
	x 12	2	1069	1496	1214	3340	1.82	1839	
	x 8	2	746	2166	1214	3340	2.63	1270	
SNLX-5000	x 4 + x 6	2	1392	2166	1214	4105	2.63	1561	
	x 30	2	1069	2498	1214	4275	3.03	1410	
	x 20	2	1392	1760	1214	4200	2.14	1966	
	x 15	2	1069	2249	1214	4175	2.73	1529	
	x 10	2	746	3254	1214	4175	3.95	1057	
SNLX-6000	x 24	2	1069	2350	1214	5080	2.85	1781	
	x 12	2	1069	2166	1214	4940	2.63	1879	
	x 36	2	1069	2498	1214	5130	3.03	1692	
	x 24	2	1392	1760	1214	5040	2.14	2359	
	x 18	2	1069	2249	1214	5010	2.73	1835	
	x 12	2	746	3254	1214	5010	3.95	1268	

Number with indicates the Fig. No. of Battery Module (P2). : Standard

Outer Dimensions of Assembled Battery



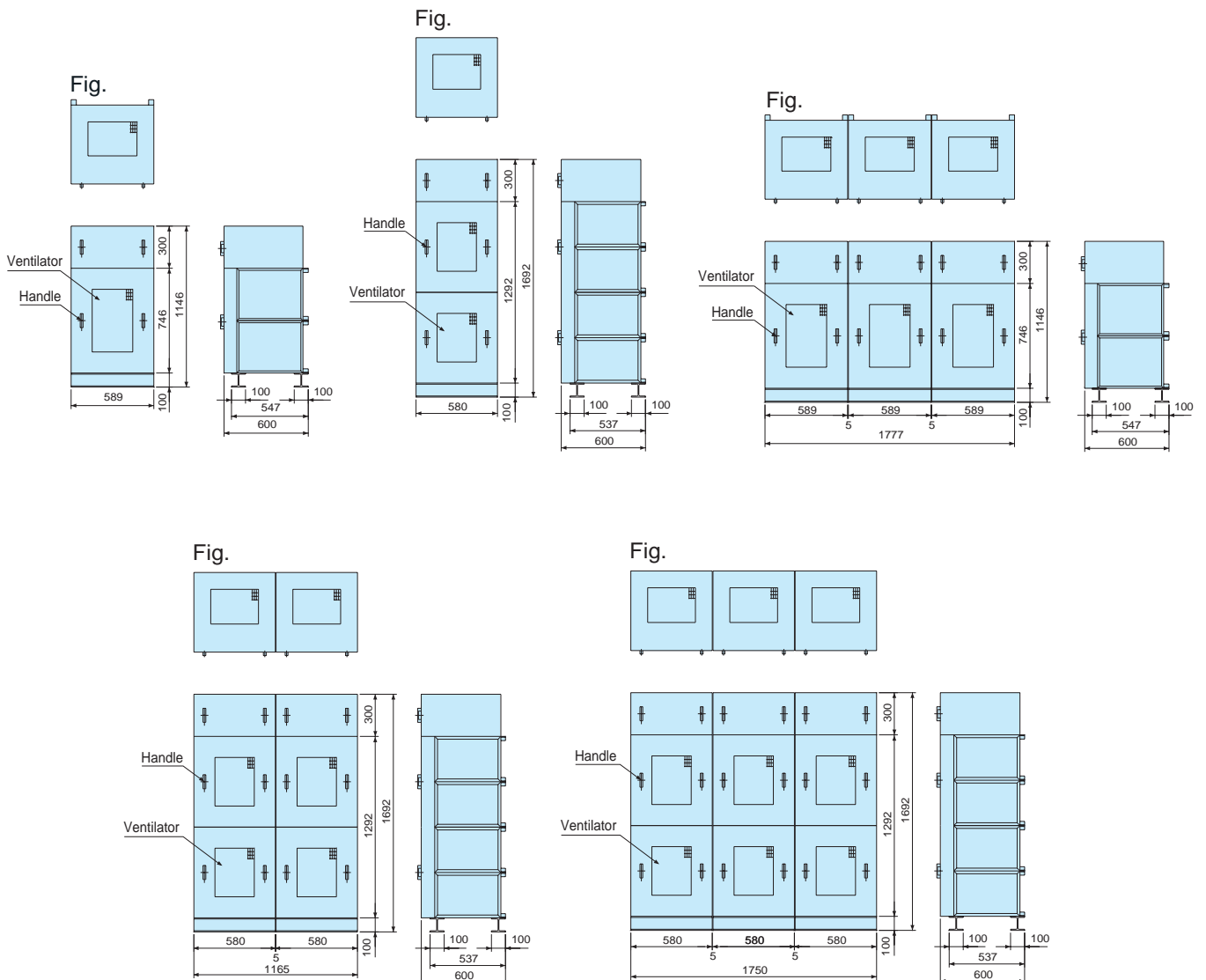
Specifications of Battery Box

Model	Number of Module	Number of Row	H(mm)	L(mm)	D(mm)	Weight (kg)	Floor Area (m ²)	Floor Pressure (kg/m ²)	Notes
SNLX-500	× 2	1	1146	589	600	445	0.32	1381	Fig.
SNLX-1000	× 4	1	1692	580	600	840	0.31	2697	Fig.
	× 3	1	1369	743	600	835	0.40	2093	
SNLX-1500	× 6	1	1146	1777	600	1335	0.98	1366	Fig.
SNLX-2000	× 8	1	1692	1165	600	1680	0.63	2674	Fig.
	× 6	1	1369	1491	600	1670	0.80	2079	
SNLX-3000	× 12	1	1692	1750	600	2520	0.95	2666	Fig.
	× 9	1	1369	2239	600	2505	1.21	2074	
SNLX-4000	× 16	2	1692	1165	600	3360	1.42	2366	
	× 12	2	1369	1491	600	3340	1.82	1839	
SNLX-5000	× 20	2	1692	1750	1340	4200	2.14	1966	
	× 15	2	1369	2239	1340	4175	2.73	1529	
SNLX-6000	× 24	2	1692	1750	1340	5040	2.14	2359	
	× 18	2	1369	2239	1340	5010	2.73	1835	

Number with indicates the Fig. No. of Battery Module (P2).

Standard

Outer Dimensions of Battery Box

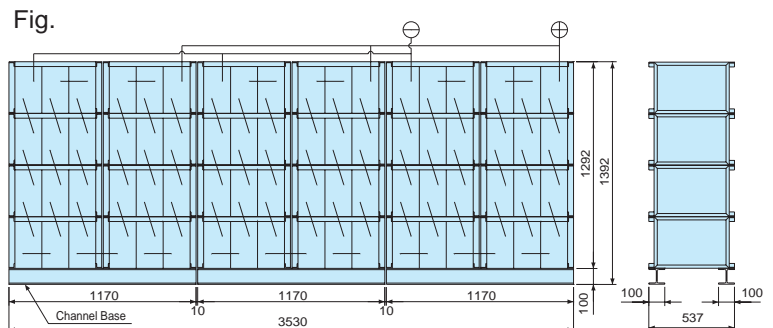
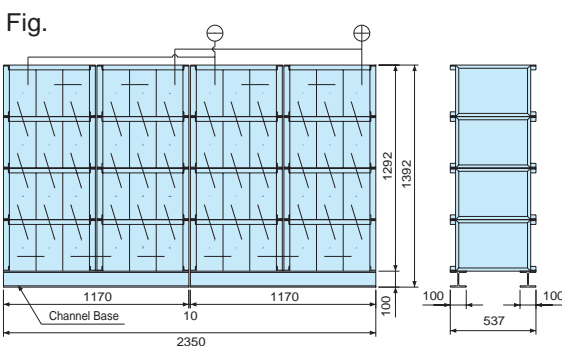
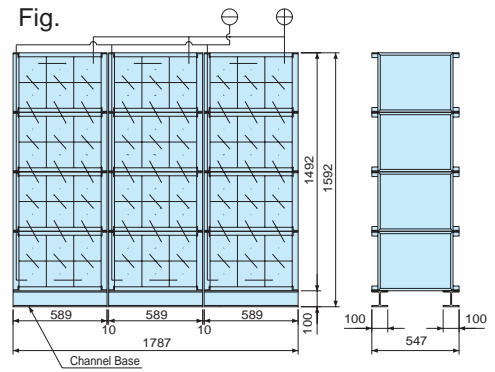
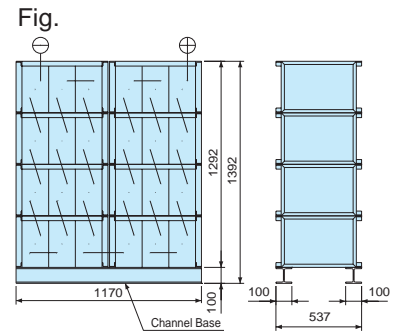
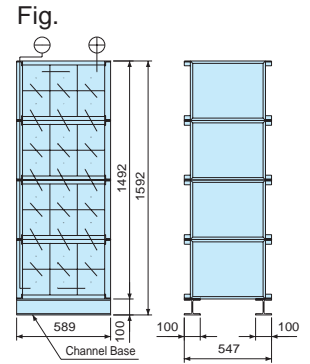


Specifications of Assembled Battery

Model	Number of Module	Number of Row	H(mm)	L(mm)	D(mm)	Weight (kg)	Floor Area (m ²)	Floor Pressure (kg/m ²)	Notes
SNLX-500	x 6	1	1219	846	547	900	0.46	1945	Fig.
	x 4	1	1592	589	547	870	0.32	2700	
	x 3	1	1219	783	547	870	0.42	2085	
	x 2	1	846	1106	547	860	0.60	1422	
SNLX-1000	x 12	1	1392	1244	537	1700	0.67	2545	Fig.
	x 8	1	1392	1170	537	1680	0.63	2674	
	x 6	1	1069	1496	537	1670	0.80	2079	
	x 4	1	1392	1078	537	1635	0.58	2824	
SNLX-1500	x 12	1	1219	2386	547	2620	1.31	2007	Fig.
	x 6	1	1219	2222	547	2540	1.22	2090	
	x 18	1	1219	2558	547	2700	1.40	1930	
	x 12	1	1592	1787	547	2610	0.98	2670	
	x 9	1	1219	2309	547	2610	1.26	2066	
	x 6	1	846	3338	547	2580	1.83	1413	
SNLX-2000	x 24	1	1392	2498	537	3400	1.34	2535	Fig.
	x 12	1	1392	2249	537	3315	1.21	2745	
	x 8	1	1392	2166	537	3270	1.16	2811	
	x 24	1	1392	2498	537	3400	1.34	2535	
	x 16	1	1392	2350	537	3360	1.26	2663	
	x 12	1	1069	3002	537	3340	1.61	2072	
SNLX-3000	x 24	1	1392	3530	537	5040	1.90	2659	Fig.
	x 12	1	1392	3254	537	4905	1.75	2807	
	x 36	1	1392	3752	537	5100	2.01	2531	
	x 24	1	1392	3530	537	5040	1.90	2659	
	x 18	1	1069	4508	537	5010	2.42	2070	
	x 12	1	1392	3254	537	4905	1.75	2807	
SNLX-4000	x 48	2	1392	2498	1214	6800	3.03	2242	Fig.
	x 24	2	1392	2249	1214	6630	2.73	2428	
	x 16	2	1392	2166	1214	6540	2.63	2487	
	x 48	2	1392	2498	1214	6800	3.03	2242	
	x 32	2	1392	2350	1214	6720	2.85	2355	
	x 24	2	1069	3002	1214	6680	3.64	1833	
	x 16	2	1392	2166	1214	6540	2.63	2487	
	x 16	2	1392	2166	1214	6540	2.63	2487	
SNLX-5000	x 8 + x 12	2	1392	3254	1214	8175	3.95	2069	Fig.
	x 60	2	1392	3752	1214	8500	4.55	1866	
	x 40	2	1392	3530	1214	8400	4.29	1960	
	x 30	2	1069	4508	1214	8350	5.47	1526	
	x 20	2	1392	3254	1214	8175	3.95	2069	
SNLX-6000	x 24	2	1392	3530	1214	10080	4.29	2352	Fig.
	x 12	2	1392	3254	1214	9810	3.95	2483	
	x 36	2	1392	3752	1214	10200	4.55	2239	
	x 24	2	1392	3530	1214	10080	4.29	2352	
	x 18	2	1069	4508	1214	10020	5.47	1831	
x 12	2	1392	3254	1214	9810	3.95	2483		

Number with indicates the Fig. No. of Battery Module (P2). : Standard

Outer Dimensions of Assembled Battery

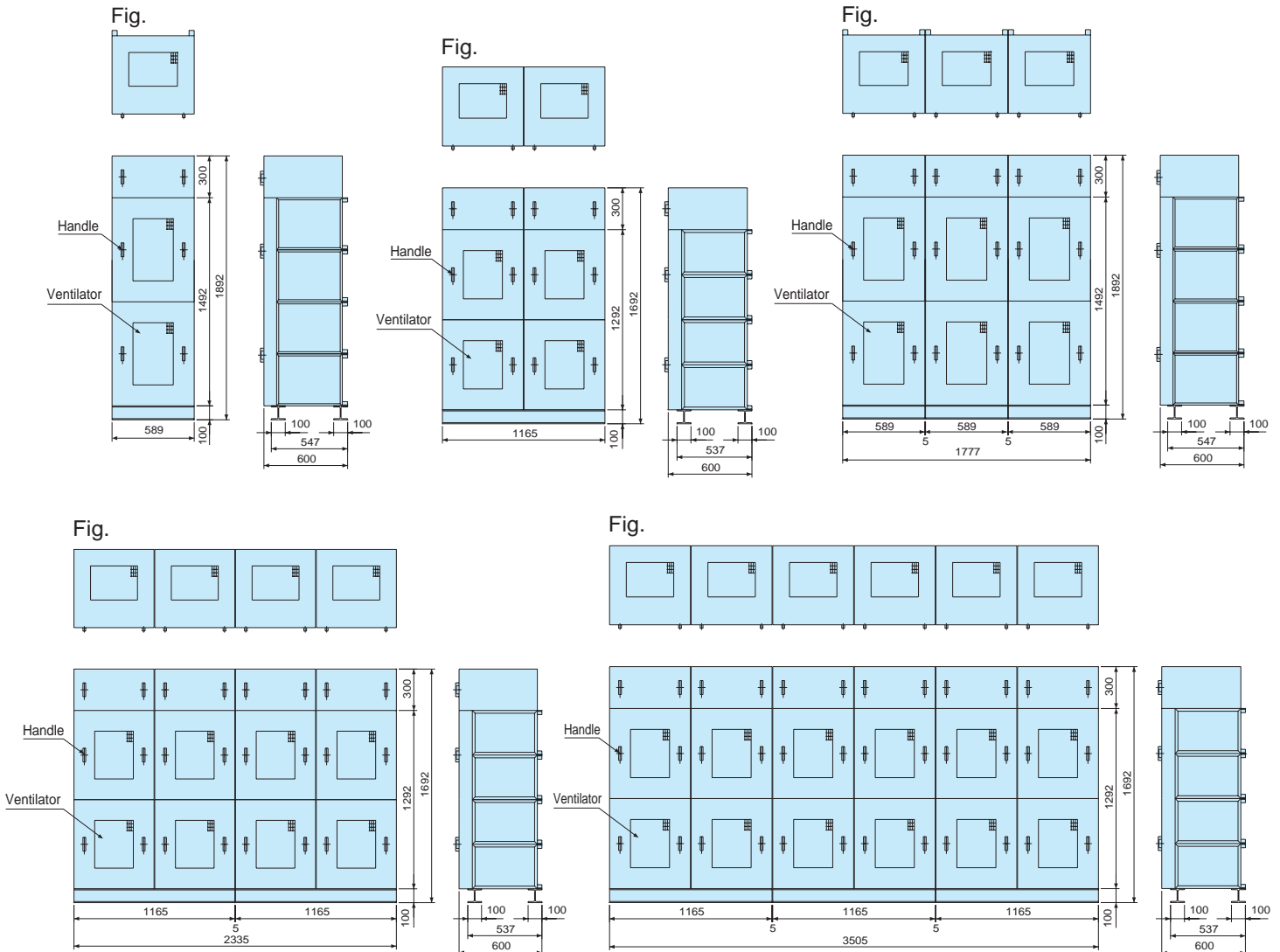


Specifications of Battery Box

Model	Number of Module	Number of Row	H(mm)	L(mm)	D(mm)	Weight (kg)	Floor Area (m ²)	Floor Pressure (kg/m ²)	Notes
SNLX-500	× 4	1	1892	589	600	870	0.32	2700	Fig.
	× 3	1	1519	763	600	870	0.42	2085	
SNLX-1000	× 8	1	1692	1165	600	1680	0.63	2674	Fig.
	× 6	1	1369	1491	600	1670	0.80	2079	
SNLX-1500	× 12	1	1892	1777	600	2610	0.98	2670	Fig.
	× 9	1	1519	2299	600	2610	1.26	2066	
SNLX-2000	× 16	1	1692	2335	600	3360	1.26	2663	Fig.
	× 12	1	1369	2987	600	3340	1.61	2072	
SNLX-3000	× 24	1	1692	3505	600	5040	1.90	2659	Fig.
	× 18	1	1369	4483	600	5010	2.42	2070	
SNLX-4000	× 32	2	1692	2335	1340	6720	2.85	2355	
	× 24	2	1369	2987	1340	6680	3.64	1833	
SNLX-5000	× 40	2	1692	3505	1340	8400	4.29	1960	
	× 30	2	1369	4483	1340	8350	5.47	1526	
SNLX-6000	× 24	2	1692	3505	1340	10080	4.29	2352	
	× 18	2	1369	4483	1340	10020	5.47	1831	

Number with indicates the Fig. No. of Battery Module (P2). : Standard

Outer Dimensions of Battery Box



Comparison of Assembled Battery with Steel Rack : 48V(24 cells)

Model	1000Ah				2000Ah				3000Ah			
	L (mm)	D (mm)	H (mm)	Weight(kg)	L (mm)	D (mm)	H (mm)	Weight(kg)	L (mm)	D (mm)	H (mm)	Weight(kg)
Type SNL	1170	537	1392	1680	2350	537	1392	3360	3530	537	1392	5040
Type SNS	1500	655	1843	2080	2850	672	1853	3950	2900	892	1853	5970
Area Ratio SNL/SNS	0.64				0.66				0.73			
Volume Ratio SNL/SNS	0.48				0.49				0.55			

* "Weight" includes weight of Battery and Steel Rack.

* SNL type use the Module consists of 3 cells, SNS type use 3 tire stack.

Comparison of Assembled Battery with Battery Box : 48V(24 cells)

Model	500Ah				1000Ah				1500Ah			
	L (mm)	D (mm)	H (mm)	Weight(kg)	L (mm)	D (mm)	H (mm)	Weight(kg)	L (mm)	D (mm)	H (mm)	Weight(kg)
Type SNL	589	600	1892	870	1165	600	1692	1680	1777	600	1892	2610
Type SNS	1000	700	1950	1240	1700	700	1950	2300	3200	700	2350	3870
Area Ratio SNL/SNS	0.50				0.59				0.48			
Volume Ratio SNL/SNS	0.49				0.51				0.38			

* "Weight" includes weight of Battery and Steel Rack.

* SNL type use the Module consists of 6 cells (500Ah/1500A) and 3 cells (1000Ah), SNS type use 3 tire stack.

Prior to use be sure to read all technical data and operating manuals.

Specification graphs and external configurations are subject to change without notice for product improvements.



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Our Plant Accreditation

Head Office : EC97J1151 (Dec.24, 1997)