

High Rate Lithium UPS Battery System

The Narada NESP Series (LFP) High Capacity Lithium Iron Phosphate batteries are designed for a wide range of UPS solutions providing a more open operating temperature range, while delivering exceptional warranty, safety, and life.

FEATURES AND CERTIFICATIONS

- **System Level Protection**
- **Thermal Management**
- **Standard HMI**
- **High Rate Discharge down to 3 min**
- **Flexible Module Design**
- **Wide Operating Voltage Range up to 1000VDC**
- **10 Module Capacity up to 200kW**
- **Disconnect or Breaker Option**
- **Standard color Black / Beige**
Optional
- **No AC Power Required**



High Rate Lithium 51.2

NESP Series

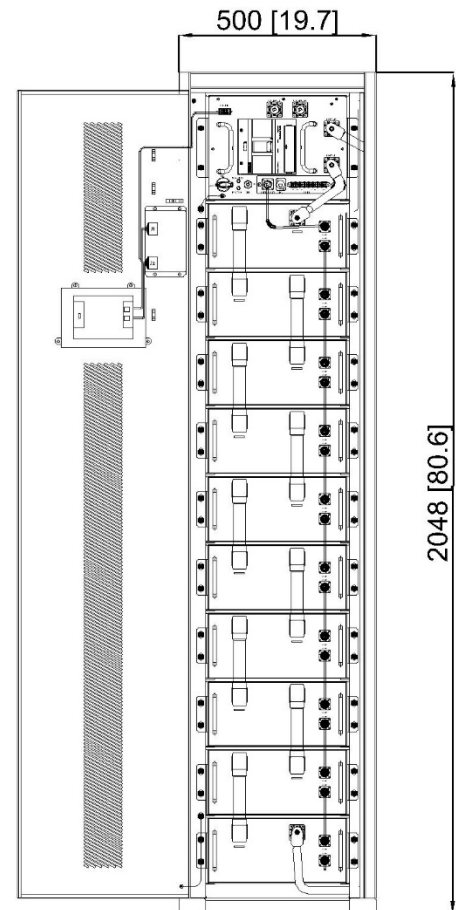
Module

<i>Module</i>		<i>NESP51255</i>
Rated Voltage	V	51.2
Rated Capacity	Ah	55
Weight	Kg/lbs	35 / 77
Charge / Discharge Current (Max)	A	55 / 425
Charge / End Voltage	V	57.6 / 43.2
Discharge Voltage	V	43.2
Dimensions	Width, mm/in	392 / 15.5
	Depth, mm/in	435 / 17.2
	Height, mm/in	165 / 6.5
Temperature Range	Charge	0°C to 55°C
	Discharge	-20°C to 55°C
	Storage	0°C to 40°C
	Operating	15°C to 35°C



**Dimensions
10 Module Rack**

<i>System</i>		
	<i>5125528</i>	<i>5125525</i>
Configuration	160S1P	144S1P
Modules /String	10	9
Nominal Voltage(V)	512	460.8
Module (Ah)	55	55
Charge Voltage(V)	584	518.4
Cutoff Voltage(V)	440	396
Max Discharge (A)	425	425
Dimensions	160S1P	144S1P
Rack Width(mm/in)	500 / 19.7	500 / 19.7
Rack Depth(mm/in)	710 / 28.0	710 / 28.0
Rack Height(mm/in)	2048 / 80.7	2048 / 80.7
System Weight (kg/lbs.)	540 / 1188	505 / 1111



High Rate Lithium 51.2

NESP Series

5125528 Constant Power Discharge, kW

BATTERY CABINETS / PARALLEL STRINGS

Minutes	1	2	3	4	5	6	7	8	9	10	11	12	13	14
5.0	200.0	400.0	600.0	800.0	1000.0	1200.0	1400.0	1600.0	1800.0	2000.0	2200.0	2400.0	2600.0	2800.0
5.5	193.8	387.5	581.3	775.0	968.8	1162.5	1356.3	1550.0	1743.8	1937.5	2131.3	2325.0	2518.8	2712.5
6.0	187.5	375.0	562.5	750.0	937.5	1125.0	1312.5	1500.0	1687.5	1875.0	2062.5	2250.0	2437.5	2625.0
6.5	181.3	362.5	543.8	725.0	906.3	1087.5	1268.8	1450.0	1631.3	1812.5	1993.8	2175.0	2356.3	2537.5
7.0	175.0	350.0	525.0	700.0	875.0	1050.0	1225.0	1400.0	1575.0	1750.0	1925.0	2100.0	2275.0	2450.0
7.5	170.0	340.0	510.0	680.0	850.0	1020.0	1190.0	1360.0	1530.0	1700.0	1870.0	2040.0	2210.0	2380.0
8.0	165.0	330.0	495.0	660.0	825.0	990.0	1155.0	1320.0	1485.0	1650.0	1815.0	1980.0	2145.0	2310.0
8.5	161.0	322.0	483.0	644.0	805.0	966.0	1127.0	1288.0	1449.0	1610.0	1771.0	1932.0	2093.0	2254.0
9.0	155.0	310.0	465.0	620.0	775.0	930.0	1085.0	1240.0	1395.0	1550.0	1705.0	1860.0	2015.0	2170.0
9.5	149.0	298.0	447.0	596.0	745.0	894.0	1043.0	1192.0	1341.0	1490.0	1639.0	1788.0	1937.0	2086.0
10.0	143.0	286.0	429.0	572.0	715.0	858.0	1001.0	1144.0	1287.0	1430.0	1573.0	1716.0	1859.0	2002.0
11.0	134.0	268.0	402.0	536.0	670.0	804.0	938.0	1072.0	1206.0	1340.0	1474.0	1608.0	1742.0	1876.0
12.0	122.5	245.0	367.5	490.0	612.5	735.0	857.5	980.0	1102.5	1225.0	1347.5	1470.0	1592.5	1715.0
13.0	111.0	222.0	333.0	444.0	555.0	666.0	777.0	888.0	999.0	1110.0	1221.0	1332.0	1443.0	1554.0
14.0	103.5	207.0	310.5	414.0	517.5	621.0	724.5	828.0	931.5	1035.0	1138.5	1242.0	1345.5	1449.0
15.0	96.0	192.0	288.0	384.0	480.0	576.0	672.0	768.0	864.0	960.0	1056.0	1152.0	1248.0	1344.0
16.0	92.5	185.0	277.5	370.0	462.5	555.0	647.5	740.0	832.5	925.0	1017.5	1110.0	1202.5	1295.0
17.0	89.0	178.0	267.0	356.0	445.0	534.0	623.0	712.0	801.0	890.0	979.0	1068.0	1157.0	1246.0
18.0	85.5	171.0	256.5	342.0	427.5	513.0	598.5	684.0	769.5	855.0	940.5	1026.0	1111.5	1197.0
19.0	82.0	164.0	246.0	328.0	410.0	492.0	574.0	656.0	738.0	820.0	902.0	984.0	1066.0	1148.0
20.0	79.2	158.4	237.6	316.8	396.0	475.2	554.4	633.6	712.8	792.0	871.2	950.4	1029.6	1108.8
21.0	76.4	152.8	229.2	305.6	382.0	458.4	534.8	611.2	687.6	764.0	840.4	916.8	993.2	1069.6
22.0	73.6	147.2	220.8	294.4	368.0	441.6	515.2	588.8	662.4	736.0	809.6	883.2	956.8	1030.4
23.0	70.8	141.6	212.4	283.2	354.0	424.8	495.6	566.4	637.2	708.0	778.8	849.6	920.4	991.2
24.0	68.0	136.0	204.0	272.0	340.0	408.0	476.0	544.0	612.0	680.0	748.0	816.0	884.0	952.0
25.0	65.2	130.4	195.6	260.8	326.0	391.2	456.4	521.6	586.8	652.0	717.2	782.4	847.6	912.8
26.0	62.4	124.8	187.2	249.6	312.0	374.4	436.8	499.2	561.6	624.0	686.4	748.8	811.2	873.6
27.0	59.6	119.2	178.8	238.4	298.0	357.6	417.2	476.8	536.4	596.0	655.6	715.2	774.8	834.4
28.0	56.8	113.6	170.4	227.2	284.0	340.8	397.6	454.4	511.2	568.0	624.8	681.6	738.4	795.2
29.0	54.0	108.0	162.0	216.0	270.0	324.0	378.0	432.0	486.0	540.0	594.0	648.0	702.0	756.0
30.0	51.2	102.4	153.6	204.8	256.0	307.2	358.4	409.6	460.8	512.0	563.2	614.4	665.6	716.8
45.0	36.0	72.0	108.0	144.0	180.0	216.0	252.0	288.0	324.0	360.0	396.0	432.0	468.0	504.0
60.0	30.5	61.1	91.6	122.1	152.6	183.2	213.7	244.2	274.7	305.3	335.8	366.3	396.8	427.4

5125525 Constant Power Discharge, kW

BATTERY CABINETS / PARALLEL STRINGS

Minutes	1	2	3	4	5	6	7	8	9	10	11	12	13	14
5	180	360	540	720	900	1080	1260	1440	1620	1800	1980	2160	2340	2520
5.5	174.5	348.8	523.2	697.5	872	1046.3	1220.7	1395	1569.5	1743.8	1918.2	2092.5	2267	2441.3
6	168.8	337.5	506.3	675	843.8	1012.5	1181.3	1350	1518.8	1687.5	1856.3	2025	2193.8	2362.5
6.5	163.2	326.3	489.5	652.5	815.7	978.8	1142	1305	1468.2	1631.3	1794.5	1957.5	2120.7	2283.8
7	157.5	315	472.5	630	787.5	945	1102.5	1260	1417.5	1575	1732.5	1890	2047.5	2205
7.5	153	306	459	612	765	918	1071	1224	1377	1530	1683	1836	1989	2142
8	148.5	297	445.5	594	742.5	891	1039.5	1188	1336.5	1485	1633.5	1782	1930.5	2079
8.5	144.9	289.8	434.7	579.6	724.5	869.4	1014.3	1159.2	1304.1	1449	1593.9	1738.8	1883.7	2028.6
9	139.5	279	418.5	558	697.5	837	976.5	1116	1255.5	1395	1534.5	1674	1813.5	1953
9.5	134.1	268.2	402.3	536.4	670.5	804.6	938.7	1072.8	1206.9	1341	1475.1	1609.2	1743.3	1877.4
10	128.7	257.4	386.1	514.8	643.5	772.2	900.9	1029.6	1158.3	1287	1415.7	1544.4	1673.1	1801.8
11	120.6	241.2	361.8	482.4	603	723.6	844.2	964.8	1085.4	1206	1326.6	1447.2	1567.8	1688.4
12	110.3	220.5	330.8	441	551.3	661.5	771.8	882	992.3	1102.5	1212.8	1323	1433.3	1543.5
13	99.9	199.8	299.7	399.6	499.5	599.4	699.3	799.2	899.1	999	1098.9	1198.8	1298.7	1398.6
14	93.2	186.3	279.5	372.6	465.8	558.9	652.1	745.2	838.4	931.5	1024.7	1117.8	1211	1304.1
15	86.4	172.8	259.2	345.6	432	518.4	604.8	691.2	777.6	864	950.4	1036.8	1123.2	1209.6
16	83.3	166.5	249.8	333	416.3	499.5	582.8	666	749.3	832.5	915.8	999	1082.3	1165.5
17	80.1	160.2	240.3	320.4	400.5	480.6	560.7	640.8	720.9	801	881.1	961.2	1041.3	1121.4
18	77	153.9	230.9	307.8	384.8	461.7	538.7	615.6	692.6	769.5	846.5	923.4	1000.4	1077.3
19	73.8	147.6	221.4	295.2	369	442.8	516.6	590.4	664.2	738	811.8	885.6	959.4	1033.2
20	71.3	142.6	213.9	285.2	356.4	427.7	499	570.3	641.6	712.8	784.1	855.4	926.7	998
21	68.8	137.6	206.3	275.1	343.8	412.6	481.4	550.1	618.9	687.6	756.4	825.2	893.9	962.7
22	66.3	132.5	198.8	265	331.2	397.5	463.7	530	596.2	662.4	728.7	794.9	861.2	927.4
23	63.8	127.5	191.2	254.9	318.6	382.4	446.1	509.8	573.5	637.2	701	764.7	828.4	892.1
24	61.2	122.4	183.6	244.8	306	367.2	428.4	489.6	550.8	612	673.2	734.4	795.6	856.8
25	58.7	117.4	176.1	234.8	293.4	352.1	410.8	469.5	528.2	586.8	645.5	704.2	762.9	821.6
26	56.2	112.4	168.5	224.7	280.8	337	393.2	449.3	505.5	561.6	617.8	674	730.1	786.3
27	53.7	107.3	161	214.6	268.2	321.9	375.5	429.2	482.8	536.4	590.1	643.7	697.4	751
28	51.2	102.3	153.4	204.5	255.6	306.8	357.9	409	460.1	511.2	562.4	613.5	664.6	715.7
29	48.6	97.2	145.8	194.4	243	291.6	340.2	388.8	437.4	486	534.6	583.2	631.8	680.4
30	46.1	92.2	138.3	184.4	230.4	276.5	322.6	368.7	414.8	460.8	506.9	553	599.1	645.2
45	32.4	64.8	97.2	129.6	162	194.4	226.8	259.2	291.6	324	356.4	388.8	421.2	453.6
60	27.5	55	82.5	109.9	137.4	164.9	192.4	219.8	247.3	274.8	302.3	329.7	357.2	384.7



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