

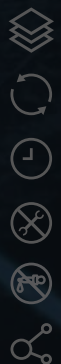


**ADVANCED
BATTERY
SOLUTIONS**

**NEXSYS®
BATTERIES**

TECHNICAL DATA

POWER WHEN
YOU NEED IT



EnerSys®

Power/Full Solutions

NexSys® cells, with bolt-on connectors, dimensions to DIN/EN 60254-2, IEC 60254-2, GBT 7403.2, IS 5154.2, AS2402.1.1

NexSys Cell	Nominal Cell Voltage	Nominal Capacity 1.7VPC @30C	Cell Dimension (mm)			Weight ±5%	Energy from 100% to 20% SOC	Standard Terminals	Terminal Layout
	Vdc	C5 Ah	L	W	H (total)	kg	Wh		
2NXS130	2	130	47	198	370	8.9	211	M10 Female	1
3NXS195	2	195	65	198	370	12.6	316	M10 Female	1
4NXS260	2	260	83	198	370	16.4	421	M10 Female	1
5NXS325	2	325	101	198	370	20.1	527	M10 Female	1
6NXS390	2	390	119	198	370	23.8	632	M10 Female	1
2NXS164	2	164	47	198	435	10.8	266	M10 Female	1
3NXS246	2	246	65	198	435	15.3	399	M10 Female	1
4NXS328	2	328	83	198	435	19.8	531	M10 Female	1
5NXS410	2	410	101	198	435	24.4	664	M10 Female	1
6NXS492	2	492	119	198	435	29.0	797	M10 Female	1
2NXS190	2	190	47	198	485	12.2	308	M10 Female	1
3NXS285	2	285	65	198	485	17.4	462	M10 Female	1
4NXS380	2	380	83	198	485	22.6	616	M10 Female	1
5NXS475	2	475	101	198	485	27.8	770	M10 Female	1
6NXS570	2	570	119	198	485	33.0	923	M10 Female	1
2NXS220	2	220	47	198	541	13.8	356	M10 Female	1
3NXS330	2	330	65	198	541	19.8	535	M10 Female	1
4NXS440	2	440	83	198	541	25.7	713	M10 Female	1
5NXS550	2	550	101	198	541	31.6	891	M10 Female	1
6NXS660	2	660	119	198	541	37.6	1069	M10 Female	1
7NXS770	2	770	137	198	541	42.5	1247	M10 Female	1
2NXS234	2	234	47	198	574	14.8	379	M10 Female	1
3NXS351	2	351	65	198	574	21.1	569	M10 Female	1
4NXS468	2	468	83	198	574	27.5	758	M10 Female	1
5NXS585	2	585	101	198	574	33.8	948	M10 Female	1
6NXS702	2	702	119	198	574	40.2	1137	M10 Female	1
7NXS819	2	819	137	198	574	46.9	1327	M10 Female	1
2NXS250	2	250	47	198	600	15.6	405	M10 Female	1
3NXS375	2	375	65	198	600	22.2	608	M10 Female	1
4NXS500	2	500	83	198	600	28.8	810	M10 Female	1
5NXS625	2	625	101	198	600	35.5	1013	M10 Female	1
6NXS750	2	750	119	198	600	42.1	1215	M10 Female	1
7NXS875	2	875	137	198	600	49.8	1418	M10 Female	1
2NXS280	2	280	47	198	675	17.4	454	M10 Female	1
3NXS420	2	420	65	198	675	24.6	680	M10 Female	1
4NXS560	2	560	83	198	675	32.0	907	M10 Female	1
5NXS700	2	700	101	198	675	39.3	1134	M10 Female	1
6NXS840	2	840	119	198	675	46.6	1361	M10 Female	1
7NXS980	2	980	137	198	675	54.2	1588	M10 Female	1

NexSys® cells, with bolt-on connectors, dimensions to IEC 60254-2, GBT 7403.2, IS 5154.2, AS2402.1.1

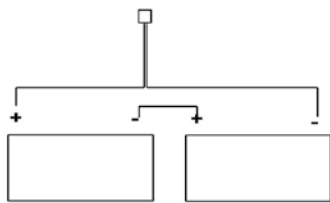
2NXSB160	2	160	45	157.5	541	10.8	259	M10 Female	1
3NXSB240	2	240	61	157.5	541	14.8	389	M10 Female	1
4NXSB320	2	320	77	157.5	541	18.7	518	M10 Female	1
2NXSB200	2	200	45	157.5	630	12.9	324	M10 Female	1
3NXSB300	2	300	61	157.5	630	17.7	486	M10 Female	1
4NXSB400	2	400	77	157.5	630	22.2	648	M10 Female	1

NexSys Bloc	Nominal Bloc Voltage	Nominal Capacity 1.7VPC @30C	Nominal Capacity 1.75VPC @25C	Bloc Dimensions (mm)				Weight ±5% kg	Standard Terminals	Terminal Adaptor Options	Terminal Layout
	Vdc	C5 Ah	C20 Ah	L	W	H	H (Term)				
12NXS26	12	26	29	250	97	147	144	9.6	M6 Female	A	1
12NXS36	12	36	40	250	97	197	194	13.2	M6 Female	A	1
12NXS38	12	38	40	197	165	170	162	17.4	M6 Female	A	1
12NXS50	12	50	55	220	120	252	248	18.6	M6 Female	A	1
12NXS61	12	61	66	280	97	264	248	19.1	M8 Female	-	2
12NXS62	12	62	69	329	166	174	166	24.10	M6 Female	A	1
12NXS85	12	85	103	395	105	264	248	27.2	M8 Female	-	2
12NXS86	12	86	100	330	172	214	219	35.1	3/8-16" Female	A	1
12NXS90	12	90	95	302	175	223	227	31.5	M6 Female	A	3
12NXS120	12	120	130	338	173	272	273	43.0	M6 Female	A	3
12NXS137	12	137	152	455	172	238	238	47.6	M6 Female	B	2
12NXS157	12	157	184	455	172	273	274	53.1	M6 Female	B	2
12NXS166	12	166	186	561	125	283	263	51.2	M8 Female	B	2
12NXS186	12	186	210	561	125	317	297	59.4	M8 Female	B	2

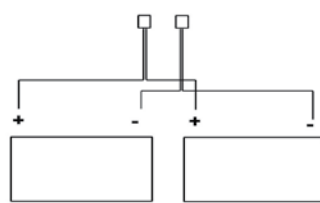
Terminal Layout			
	1	2	3
2 V			
12 V			

Bloc Terminal Adaptor Options	
	A - SAE Post
	B - M6 Male front terminal adaptor

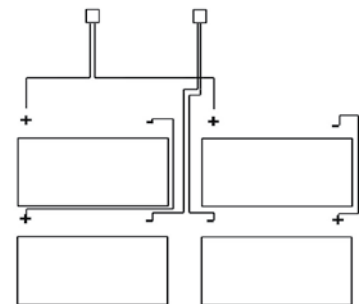
Selecting the correct bloc, terminals and connection method



Series Connection
To increase voltage
No increase in capacity



Parallel Connection
To increase capacity
No increase in voltage



Series / Parallel Connection
To increase both capacity and voltage

Determine your space restrictions

The amount and shape of space available may influence which bloc or cells can be used to fulfil your power needs.

Determine your power needs

Determine the total voltage of your current system and whether or not this amount of energy was adequate or if more power is needed. If the bloc or cells being replaced provided sufficient power, a replacement with similar capacity can be used. If your current blocs or cells did not always meet your needs, a replacement with higher capacity (or multiple blocs with collectively more capacity) should be used.

Note: Connection in series does not increase the capacity, it simply increases the overall voltage to meet your system requirements.

If additional capacity is needed, you can connect blocs in parallel as long as your equipment's voltage requirements are met. See diagrams. Maximum strings for NexSys® blocs in series/parallel configuration is two. NexSys cells should ONLY be connected in series.

Determine the optimum terminal and connection method

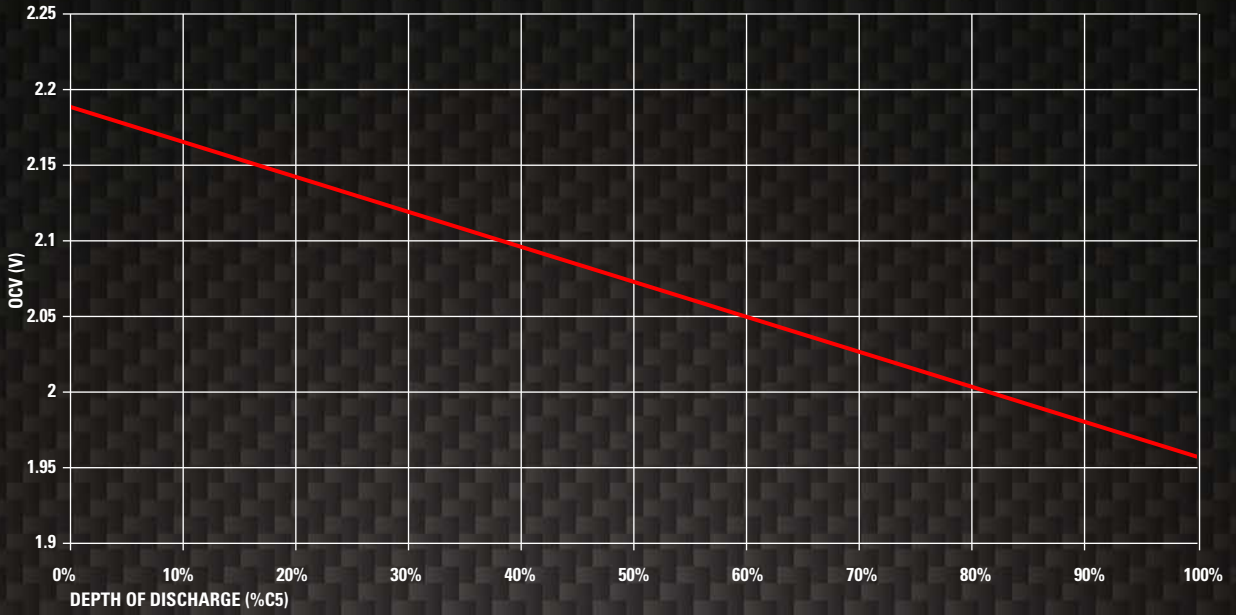
See which types of terminals are available for the bloc you have selected and choose the best for your needs based on the type of cable connections you intend to use. When connecting, take care to use a proper cable size to avoid overheating your connections.

ALL connections should be made with approved, flexible connectors. Refer Instructions Of Use document for terminal torque values.

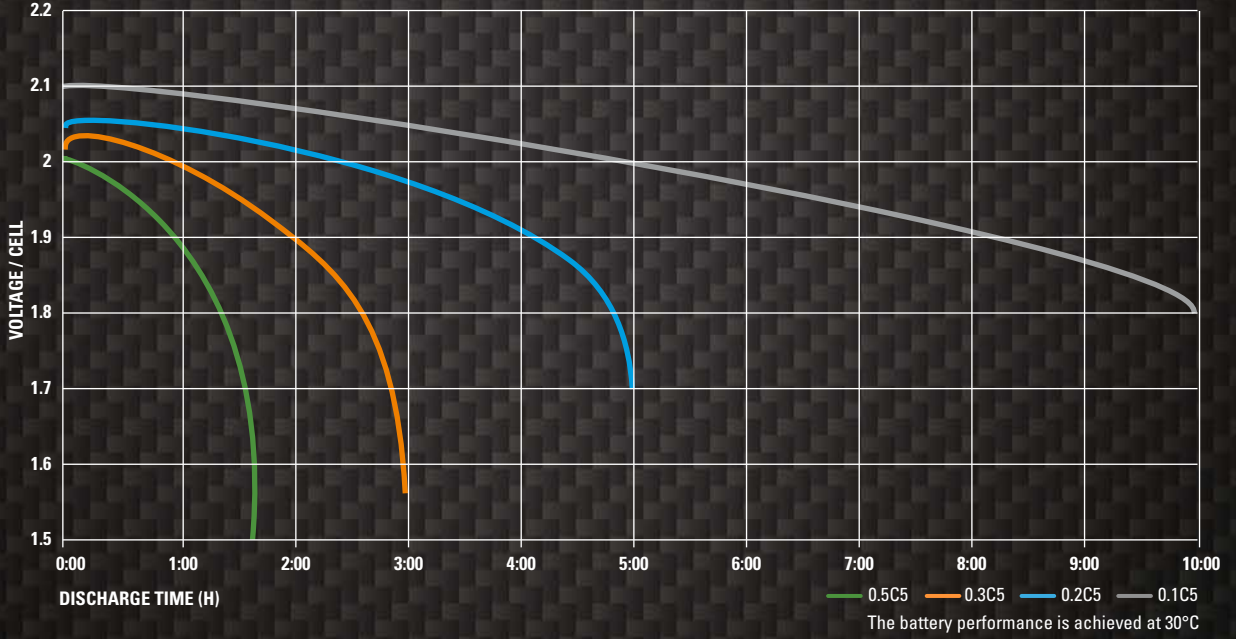
Note: Keep in mind there must be sufficient space between blocs to allow for minor battery expansion during use. This assures proper airflow to keep bloc temperature down in hot environments.

For further information regarding correct cable sizes and connection methods contact an EnerSys representative.

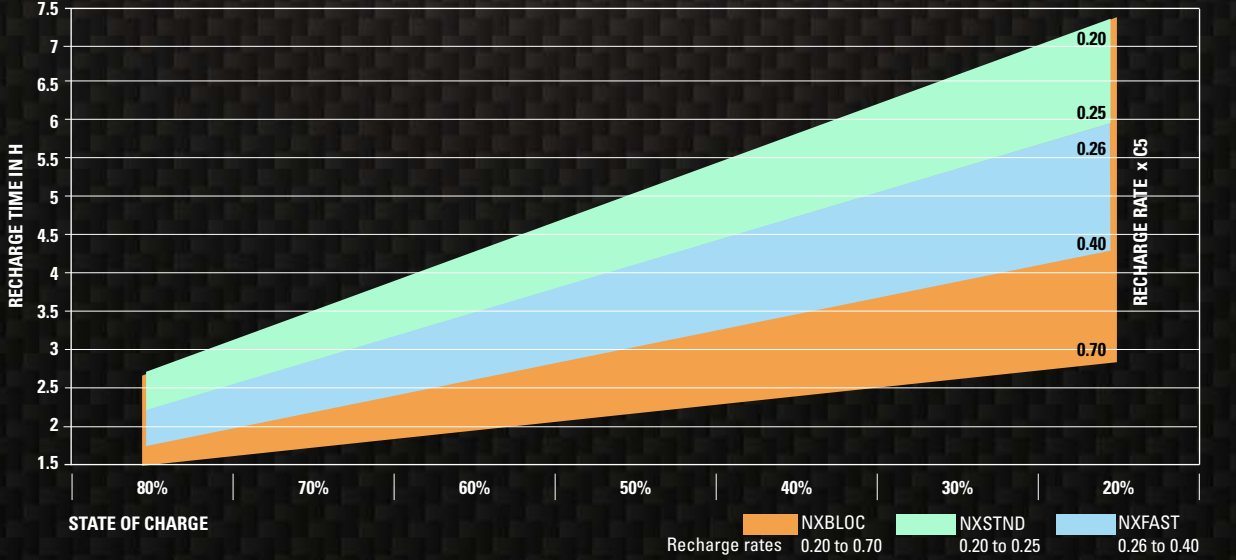
Open Circuit Voltage vs % Depth Of Discharge



Discharge curves at various discharge rates - schematic discharge



Time for full recharge at various initial state of charge & recharge rates



**WHEREVER
YOU DO BUSINESS,
ENERSYS
CAN SUPPORT
YOU WITH MOTIVE
POWER ENERGY.**



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