



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



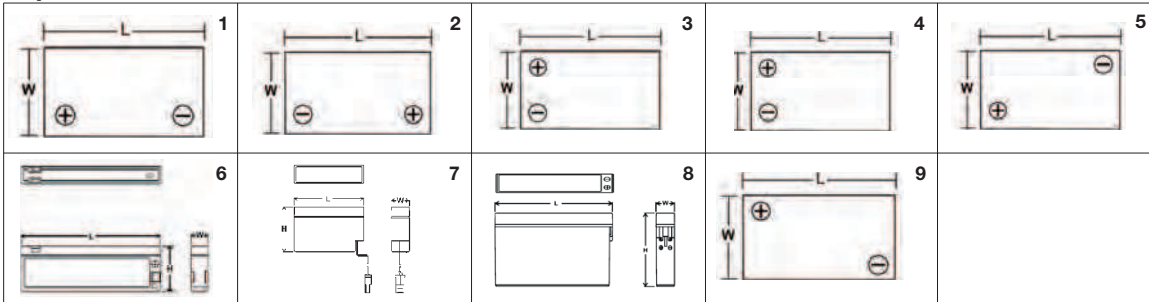
genesis[®]
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data safe[®]
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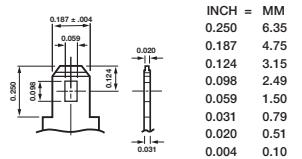
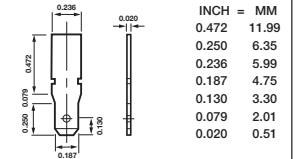
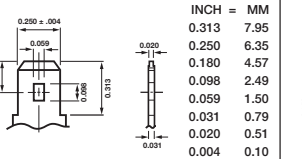
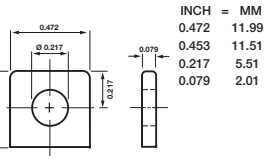
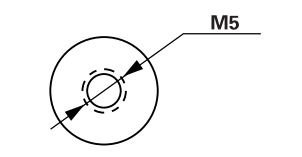
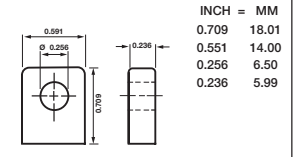
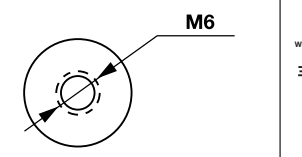
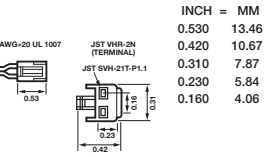
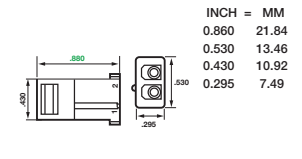
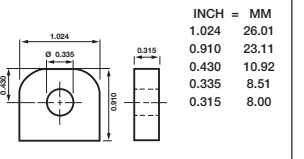
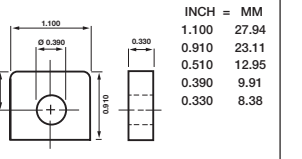
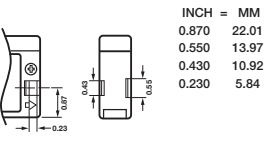
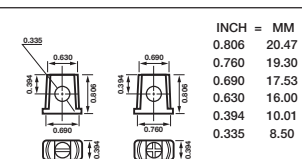


Powerful solutions for industrial applications

Layout Illustration



Terminal Illustration

 <p>Faston Tab: 187 A</p>	<p>INCH = MM</p> <table border="1"> <tr><td>0.250</td><td>6.35</td></tr> <tr><td>0.187</td><td>4.75</td></tr> <tr><td>0.124</td><td>3.15</td></tr> <tr><td>0.098</td><td>2.49</td></tr> <tr><td>0.059</td><td>1.50</td></tr> <tr><td>0.031</td><td>0.79</td></tr> <tr><td>0.020</td><td>0.51</td></tr> <tr><td>0.004</td><td>0.10</td></tr> </table>	0.250	6.35	0.187	4.75	0.124	3.15	0.098	2.49	0.059	1.50	0.031	0.79	0.020	0.51	0.004	0.10	 <p>Faston Tab: 187 B</p>	<p>INCH = MM</p> <table border="1"> <tr><td>0.472</td><td>11.99</td></tr> <tr><td>0.250</td><td>6.35</td></tr> <tr><td>0.236</td><td>5.99</td></tr> <tr><td>0.187</td><td>4.75</td></tr> <tr><td>0.130</td><td>3.30</td></tr> <tr><td>0.079</td><td>2.01</td></tr> <tr><td>0.020</td><td>0.51</td></tr> </table>	0.472	11.99	0.250	6.35	0.236	5.99	0.187	4.75	0.130	3.30	0.079	2.01	0.020	0.51	 <p>Faston Tab: 250 C</p>	<p>INCH = MM</p> <table border="1"> <tr><td>0.313</td><td>7.95</td></tr> <tr><td>0.250</td><td>6.35</td></tr> <tr><td>0.180</td><td>4.57</td></tr> <tr><td>0.098</td><td>2.49</td></tr> <tr><td>0.059</td><td>1.50</td></tr> <tr><td>0.031</td><td>0.79</td></tr> <tr><td>0.020</td><td>0.51</td></tr> <tr><td>0.004</td><td>0.10</td></tr> </table>	0.313	7.95	0.250	6.35	0.180	4.57	0.098	2.49	0.059	1.50	0.031	0.79	0.020	0.51	0.004	0.10	 <p>M5 Bolt Fastened Terminal D</p>	<p>INCH = MM</p> <table border="1"> <tr><td>0.472</td><td>11.99</td></tr> <tr><td>0.453</td><td>11.51</td></tr> <tr><td>0.217</td><td>5.51</td></tr> <tr><td>0.079</td><td>2.01</td></tr> </table>	0.472	11.99	0.453	11.51	0.217	5.51	0.079	2.01
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 <p>M5 Threaded Receptacle E</p>	<p>INCH = MM</p> <table border="1"> <tr><td>0.709</td><td>18.01</td></tr> <tr><td>0.551</td><td>14.00</td></tr> <tr><td>0.256</td><td>6.50</td></tr> <tr><td>0.236</td><td>5.99</td></tr> </table>	0.709	18.01	0.551	14.00	0.256	6.50	0.236	5.99	 <p>M6 Bolt Fastened Terminal F</p>	<p>INCH = MM</p> <table border="1"> <tr><td>1.024</td><td>26.01</td></tr> <tr><td>0.910</td><td>23.11</td></tr> <tr><td>0.430</td><td>10.92</td></tr> <tr><td>0.335</td><td>8.51</td></tr> <tr><td>0.315</td><td>8.00</td></tr> </table>	1.024	26.01	0.910	23.11	0.430	10.92	0.335	8.51	0.315	8.00	 <p>M6 Threaded Receptacle G</p>	<p>INCH = MM</p> <table border="1"> <tr><td>0.530</td><td>13.46</td></tr> <tr><td>0.420</td><td>10.67</td></tr> <tr><td>0.310</td><td>7.87</td></tr> <tr><td>0.230</td><td>5.84</td></tr> <tr><td>0.160</td><td>4.06</td></tr> </table>	0.530	13.46	0.420	10.67	0.310	7.87	0.230	5.84	0.160	4.06	 <p>JST No. VHR-2N H</p>	<p>INCH = MM</p> <table border="1"> <tr><td>0.870</td><td>22.01</td></tr> <tr><td>0.550</td><td>13.97</td></tr> <tr><td>0.430</td><td>10.92</td></tr> <tr><td>0.230</td><td>5.84</td></tr> </table>	0.870	22.01	0.550	13.97	0.430	10.92	0.230	5.84																		
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 <p>Tyco. 1-480318-0 I</p>	<p>INCH = MM</p> <table border="1"> <tr><td>0.860</td><td>21.84</td></tr> <tr><td>0.530</td><td>13.46</td></tr> <tr><td>0.430</td><td>10.92</td></tr> <tr><td>0.295</td><td>7.49</td></tr> </table>	0.860	21.84	0.530	13.46	0.430	10.92	0.295	7.49	 <p>M8 Bolt Fastened Terminal J</p>	<p>INCH = MM</p> <table border="1"> <tr><td>1.100</td><td>27.94</td></tr> <tr><td>0.910</td><td>23.11</td></tr> <tr><td>0.510</td><td>12.95</td></tr> <tr><td>0.390</td><td>9.91</td></tr> <tr><td>0.330</td><td>8.38</td></tr> </table>	1.100	27.94	0.910	23.11	0.510	12.95	0.390	9.91	0.330	8.38	 <p>M10 Bolt Fastened Terminal K</p>	<p>INCH = MM</p> <table border="1"> <tr><td>0.870</td><td>22.01</td></tr> <tr><td>0.550</td><td>13.97</td></tr> <tr><td>0.430</td><td>10.92</td></tr> <tr><td>0.230</td><td>5.84</td></tr> </table>	0.870	22.01	0.550	13.97	0.430	10.92	0.230	5.84	 <p>"Camcorder" Terminal L</p>	<p>INCH = MM</p> <table border="1"> <tr><td>0.870</td><td>22.01</td></tr> <tr><td>0.550</td><td>13.97</td></tr> <tr><td>0.430</td><td>10.92</td></tr> <tr><td>0.230</td><td>5.84</td></tr> </table>	0.870	22.01	0.550	13.97	0.430	10.92	0.230	5.84																				
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 <p>M8 'Universal' Bolt Fastened Terminal M</p>	<p>INCH = MM</p> <table border="1"> <tr><td>0.806</td><td>20.47</td></tr> <tr><td>0.760</td><td>19.30</td></tr> <tr><td>0.690</td><td>17.53</td></tr> <tr><td>0.630</td><td>16.00</td></tr> <tr><td>0.394</td><td>10.01</td></tr> <tr><td>0.335</td><td>8.50</td></tr> </table>	0.806	20.47	0.760	19.30	0.690	17.53	0.630	16.00	0.394	10.01	0.335	8.50	<p>Note: Dimensions are in inches (mm) Tolerances are: ± 0.02 in. for dimensions < 5mm ± 0.04 in. for dimensions ≥ 5mm ± 0.08 in. for all height dimensions unless otherwise specified.</p>																																															
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Charging

- Standby use: Apply constant voltage charging at 2.275 volts per cell (or 2.25–2.30VPC).
- Cyclic use: Apply constant voltage charging at 2.40-2.50 VPC. Initial charging current should be set at less than 0.25CA.
- Top charge: Product in storage (ambient temperature 25°C/77°F) requires a top charge every six months. Apply constant voltage at 2.40 volts per cell, initial charging current should be set at less than 0.1CA for 15 to 20 hours.

Discharge

- Stop operation when voltage has reached the minimum permissible voltage (1.6Vpc). Recharge immediately.
- Do not operate at 3CA or more current continuously.

Storage

- Always store battery in a fully charged condition.
- If battery is to be stored for a long period, apply a recovery top-charge every 6 months.
- Store batteries in a dry and cool location.

Temperature

- Keep within ambient temperatures of -15°C to +50°C for both charging and discharging.

Incorporating battery into equipment

- Encase battery in a well ventilated compartment.
- Avoid installing battery near heated units such as a transformer.
- House the battery in the lowest section of the equipment enclosure or rack to prevent unnecessary battery temperature rise.
- It is not recommended to install/operate the battery in the inverted position.

Others

- Avoid terminal short circuit.
- DO NOT expose to open flame.
- WARNING - Avoid exposure of the battery to any type of oil, solvent, detergent, petroleum-based solvent or ammonia solution. These materials could potentially cause permanent damage to the battery jar and cover and will void the warranty.

General Specifications

Genesis® NPH Battery Series

Battery Type	FR Type*	Volts	Nominal Capacity (10hr rate-Ah)	Length		Width		Overall Height (inc. terminals)		Weight		Layout (including terminals)	Terminal Illus. (US Region)	Terminal Illus. (EMEA & Asia Region)
				mm	(in.)	mm	(in.)	mm	(in.)	kgs.	(lbs)			
NPH3.2-12	NPH3.2-12FR	12	3.2	134	5.28	67	2.64	64	2.52	1.38	3.05	3	A/C	-

Genesis® NP Battery Series

Battery Types	FR Type*	Volts	Nominal Capacity (20hr rate-Ah)	Length		Width		Overall Height (inc. terminals)		Weight		Layout including terminals	Terminal Illus. (US region)	Terminal Illus. (EMEA & Asia Region)
				mm	(in.)	mm	(in.)	mm	(in.)	kgs.	(lbs)			
NP1-6	NP1-6FR	6	1.0	51	2.01	42	1.65	57	2.24	0.28	0.61	5	A	-
NP1.2-6	NP1.2-6FR	6	1.2	97	3.82	25	0.98	56	2.20	0.30	0.67	1	A	A
NP2.8-6	NP2.8-6FR	6	2.8	67	2.64	33	1.30	105	4.13	0.59	1.30	5	A/C	A
NP3-6	NP3-6FR	6	3.0	134	5.28	33	1.30	67	2.64	0.69	1.53	1	A	A
NP3.2-6	NP3.2-6FR	6	3.2	66	2.60	33	1.30	104	4.09	0.59	1.30	5	A	-
NP3.8-6	NP3.8-6FR	6	3.8	66	2.60	33	1.30	125	4.92	0.75	1.65	1	A	-
NP4-6	NP4-6FR	6	4.0	70	2.76	47	1.85	105	4.15	0.80	1.76	5	A/C	A
NP4.5-6	NP4.5-6FR	6	4.5	70	2.76	47	1.85	105	4.15	0.86	1.90	5	A/C	-
NP5-6	NP5-6FR	6	5.0	70	2.76	47	1.85	105	4.15	0.95	2.10	5	A/C	-
NP7-6	NP7-6FR	6	7.0	151	5.95	33	1.30	100	3.94	1.28	2.83	1	A/C	A
NP8.5-6	NP8.5-6FR	6	8.5	98	3.86	56	2.20	118	4.65	1.60	3.53	9	A/C	-
NP10-6	NP10-6FR	6	10.0	151	5.95	50	1.97	101	3.98	1.99	4.38	1	A/C	A
NP12-6	NP12-6FR	6	12.0	151	5.95	50	1.97	101	3.98	2.03	4.48	1	A/C	C
NP0.8-12	NP0.8-12FR	12	0.8	96	3.78	25	0.98	61	2.42	0.37	0.82	7	H/I	H/I
NP1.2-12	NP1.2-12FR	12	1.2	97	3.82	48	1.89	56	2.20	0.57	1.25	3	A	A
NP2-12	NP2-12FR	12	2.0	150	5.91	20	0.79	89	3.50	0.70	1.54	8	B	B
NP2-12-C	NP2-12CFR	12	2.0	182	7.17	24	0.93	61	2.40	0.73	1.61	6	L	L
NP2.3-12	NP2.3-12FR	12	2.3	178	7.01	35	1.38	67	2.64	0.98	2.15	1	A	A
NP2.6-12	NP2.6-12FR	12	2.6	134	5.28	67	2.64	66	2.60	1.36	3.00	3	A	-
NP2.9-12	NP2.9-12FR	12	2.9	79	3.11	56	2.20	105	4.13	1.24	2.73	1	A/C	A
NP3-12	NP3-12FR	12	3.0	132	5.20	33	1.30	105	4.13	1.18	2.60	1	A/C	-
NP3.4-12	NP3.4-12FR	12	3.4	134	5.28	67	2.64	67	2.64	1.39	3.06	3	A/C	A
NP4-12	NP4-12FR	12	4.0	90	3.54	70	2.76	107	4.21	1.70	3.74	1	A/C	-
NP4.5-12	NP4.5-12FR	12	4.5	90	3.54	70	2.76	107	4.21	1.76	3.88	1	A/C	-
NP5-12	NP5-12FR	12	5.0	90	3.54	70	2.76	107	4.21	1.81	4.00	1	A/C	A/C
NP7-12	NP7-12FR	12	7.0	151	5.95	65	2.56	100	3.94	2.59	5.72	4	A/C	A/C
NP9-12	NP9-12FR	12	9.0	151	5.94	65	2.56	102	4.02	2.72	6.00	4	C/D	C
NP10-12	NP10-12FR	12	9.5	151	5.94	65	2.56	118	4.65	3.27	7.22	4	-	C
NP12-12	NP12-12FR	12	12.0	151	5.95	98	3.86	100	3.94	4.06	8.95	4	C	C
NP18-12	NP18-12FR	12	17.2	181	7.13	76	3.00	167	6.57	6.17	13.60	2	D/E	E/G
NP24-12	NP24-12FR	12	24.0	166	6.54	175	6.89	125	4.92	9.07	20.00	2	C/D/E	E/G
NP33-12	NP33-12FR	12	33.0	197	7.76	131	5.16	158+	6.22+	11.79	26.00	1	E/F	E/G
NP35-12	NP35-12FR	12	35.0	198	7.80	132	5.20	170	6.69	12.61	27.80	1	F	-
NP38-12	NP38-12FR	12	38.0	197	7.76	165	6.50	172	6.77	14.59	32.16	2	F/G	G
NP55-12	NP55-12FR	12	55.0	229	9.02	138	5.43	207+	8.15+	18.01	39.70	1	M/E	G
NP65-12	NP65-12FR	12	65.0	350	13.78	166	6.54	174	6.85	23.63	52.10	2	F/G	G
NP75-12	NP75-12FR	12	75.0	259	10.20	169	6.65	208+	8.19+	26.50	58.42	1	M/G	G
NP90-12	NP90-12FR	12	90.0	304	11.97	168	6.61	229	9.02	31.18	68.74	1	M/G	G
NP100-12	NP100-12FR	12	100.0	329	12.95	174	6.85	214+	8.43+	32.50	71.65	1	J/G	G
NP120-12	NP120-12FR	12	120.0	407	16.02	173	6.81	235	9.25	38.41	84.68	1	J/G	G
NP150-12	NP150-12FR	12	150.0	483	19.02	170	6.69	241	9.49	44.50	98.11	1	J/G	G12
NP200-12	NP200-12FR	12	200.0	522	20.55	240	9.45	218+	8.58+	64.50	142.20	3	K/G	G

DataSafe® NPX Battery Series

Battery Types	FR Type*	Volts	15 minute watts per cell to 1.67Vpc	Nominal Capacity (20hr rate-Ah)	Length		Width (inc. terminals)		Overall Height (inc. terminals)		Weight		Layout	Terminal Illus. (US Region)	Terminal Illus. (EMEA & Asia Region)
					mm	(in.)	mm	(in.)	mm	(in.)	kgs.	(lbs)			
NPX-35-6	NPX-35-6FR	6	35W/Cell	8	151	5.95	33	1.30	100	3.94	1.43	3.15	1	A/C	-
NPX-50-6	NPX-50FR	6	50W/Cell	13	151	5.95	50	1.97	100	3.94	2.09	4.60	1	A/C	C
NPX24-12	NPX-24FR	12	24W/Cell	6	151	5.94	51	2.01	100	3.94	2.28	5.02	4	-	neg A pos C
NPX-25-12	NPX-25FR	12	23W/Cell	5	90	3.54	70	2.75	107	4.21	1.95	4.30	1	A/C	A
NPX-35-12	NPX-35FR	12	35W/Cell	8	151	5.95	65	2.56	100	3.94	2.75	6.06	4	A/C	A/C
NPX-80-12	NPX-80FR	12	80W/Cell	20	181	7.13	76	2.39	167	6.57	6.35	14.00	2	D/E	E
NPX-100-12	NPX-100FR	12	95W/Cell	28	166	6.54	125	4.92	175	6.89	9.70	21.38	2	D/E	E
NPX-135-12	NPX-135FR	12	135W/Cell	33	197	7.76	131	5.16	158+	6.22	11.94	26.32	1	E/F	E
NPX-150-12	NPX-150FR	12	150W/Cell	40	197	7.76	165	6.50	172	6.77	14.29	31.50	2	F/G	G

FOOTNOTES:

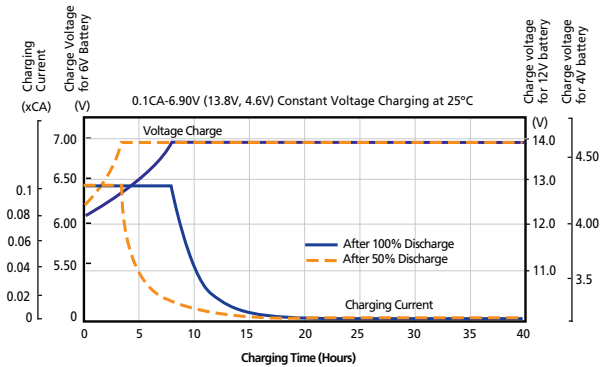
* FR: UL94-VO, Flame Retardant Case and Cover (Oxygen index 28)
 + Height is top cover. Overall Height, including terminal is dependent on the terminal configuration
 Recognized by UL File No. MH16464

NOTE: All dimensions are +/- 0.08 inches (2mm); Weights are +/- 5%

Torque Specifications:

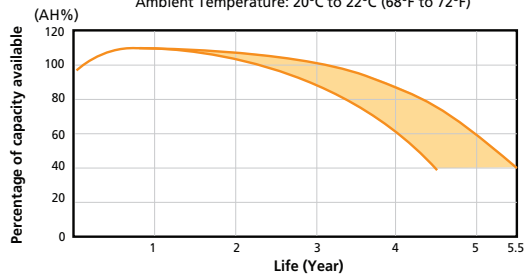
M5 bolt: 26.6 lbf.in (3Nm) +/- 5%
 M6 bolt: 44.31 lbf.in (5Nm) +/- 5%
 M5 receptacle: 35.4 lbf.in (4Nm) +/- 5%
 M6 receptacle: 65 lbf.in (6.8Nm) +/- 5%

Charging Characteristics



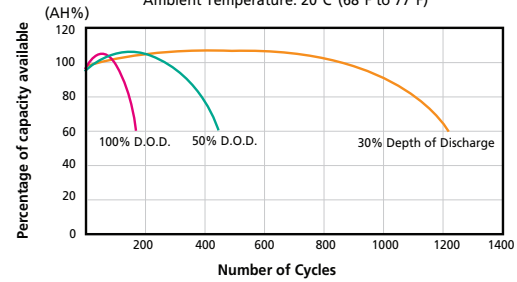
Float service life NP series

Testing conditions: Floating Voltage: 2.25 to 2.30V/Cell
Ambient Temperature: 20°C to 22°C (68°F to 72°F)

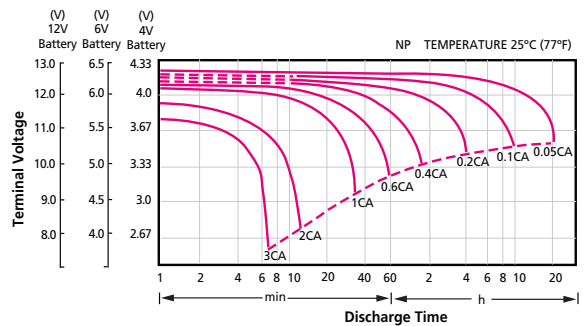


Cycle service life in relation to depth of discharge NP series

Testing conditions: Discharge Current: 0.17C Amp. (F.V. 1.7/Cell)
Charging Current: 0.09C Amp.
Charging Volume: 125% of Discharged Capacity
Ambient Temperature: 20°C (68°F to 77°F)

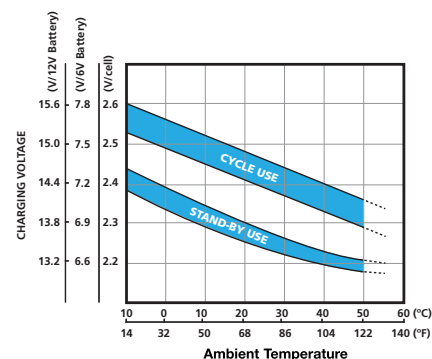


Discharge characteristics curves at 25°C (77°F) NP series



If discharge currents in excess of 3CA are required, consult the EnerSys Technical Department prior to use.

Relationship between charging voltage and temperature



www.enersys.com

EnerSys
World Headquarters
2366 Bernville Road
Reading, PA 19605
USA
Tel: +1 610 208 1991
+1 800 538 3627
Fax: +1 610 372 8613

EnerSys EMEA
EH Europe GmbH
Löwenstrasse 32
8001 Zürich
Switzerland
Tel: +41 44 215 74 10

EnerSys Asia
152 Beach Road
Gateway East Building
Level 11-03
189721 Singapore
Tel: +65 6508 1780

Contact:

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