

High Rate Max Range VRLA 18-250 Ah



The extremely powerful, AGM VRLA batteries of NETCON High Rate MAX Range is designed to cope with the most extreme temperatures and environments, is an ideal energy solution for Uninterruptible Power Supply (UPS), emergency lighting, switchgear and other high rate emergency battery backup required applications. The battery provides high performance and reliability in fast discharge applications. We combined the market demand with design optimization, precision component selection and state-of-the-art manufacturing process to produce the most cost effective battery solution for today's applications.

Features:

Thick optimized positive plate design for maximum service life - 12 years @ 35°C (95°F), 15 years @ 25°C (77°F)

Nano-Carbon enhanced for improved durability.

Advanced Corrosion-resistant lead high-tin (1.5%) low-calcium alloy;

High-Compression Absorbed Glass Mat technology (AGM) for greater than 99% recombination efficiency. Using special AGM only for extreme high temperature applications.

Advanced triple stage unique terminal sealing design to ensure leak free operation, one-way relief valve, Explosion Resistant

Advanced deep cycle high tin lead alloy, reduces grid corrosion and promotes long battery life.

Heavy duty M6/M8 Female copper plated terminals provide maximum performance and easy installation, reduce maintenance and increase safety

Less than 1 year payback period depend on environment

Anti-high-temperature casing materials:

Standard: Reinforced anti-high-temperature ABS container and cover;

Optional: Flame-retardant U.L.94 V-0

Up to 100% air conditioner maintenance saving

Applicable Operating temperature range:

-40°C (-40°F) to + 80°C (+176°F)

Ideal Operating temperature range:

+15°C (+59°F) to + 35°C (+95°F)

Storage time from a fully charged condition:

12 months at 20°C~25°C / 68°F~77°F.

for each 9°C / 15°F rise, reduce the storage time by half.

Applications

High rate MAX range batteries incorporate Netcon advanced VRLA technology designed for long life and high performance in:

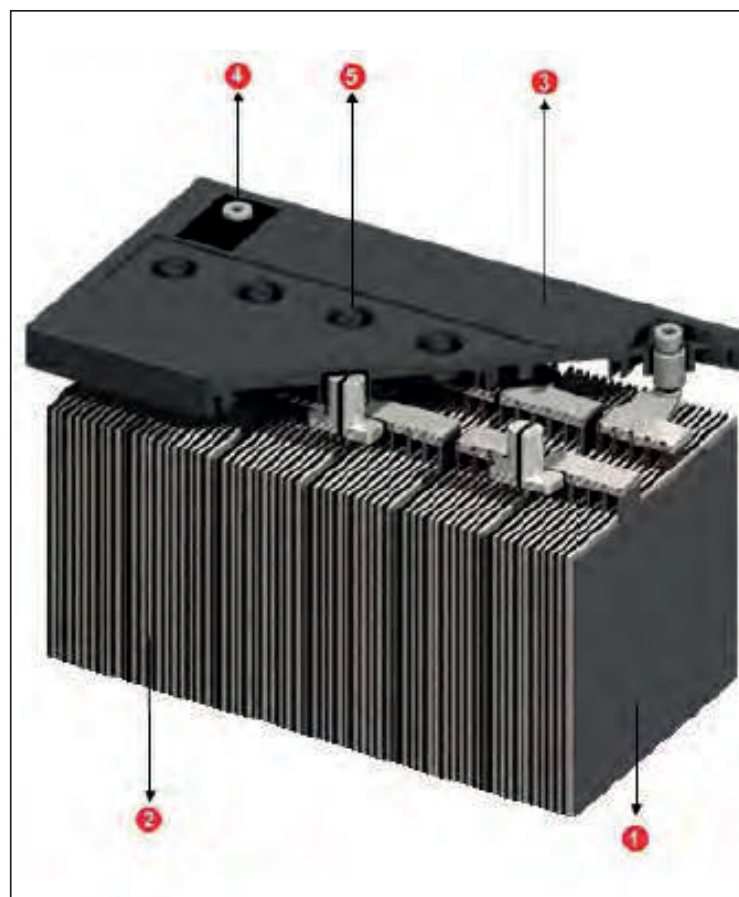
- ▶ Uninterruptible Power Supply (UPS)
- ▶ Switchgear
- ▶ Emergency lighting
- ▶ Overhead cranes
- ▶ Telecom
- ▶ Alarm and security
- ▶ Industrial DC power

Compliant Standards

- ▶ IEC 60896-21/22-2004
- ▶ IEC 61427-2005
- ▶ DIN 43539-T5
- ▶ BS 6290 PART 4
- ▶ NEBS Compliant
- ▶ EUROBAT, TR-NWT-000766

ELECTRICAL SPECIFICATIONS & DIMENSIONS

Battery model	Nom. Voltage (V)	Capacity C10 1.80VPC (Ah)	15 min. WPC 1.67VPC	Short circuit current (A)	Internal resistance (mΩ)	Terminal type	Battery weight		Outline Dimensions (mm/inch)					
							Kg	Lb	Length		Width		Height	
NTHT12-18	12	18	66.3	910	14.0	F-M5	5.50	12.1	181	713	76	2.99	167	6.58
NTHT12-26	12	26	95.8	1315	10.3	F-M5	8.10	17.8	177	6.95	167	6.56	125	4.90
NTHT12-33	12	33	122	1860	9.2	F-M6	11.0	24.2	195	7.68	195	5.12	180	7.07
NTHT12-40	12	40	160	2250	8.5	F-M6	13.5	29.7	198	7.78	198	6.52	170	6.68
NTHT12-55	12	55	203	2410	7.0	F-M6	18.0	39.6	229	9.00	229	5.41	215	8.46
NTHT12-65	12	65	240	2670	6.3	F-M6	22.0	48.4	350	13.8	350	6.57	179	7.03
NTHT12-70	12	70	280	2880	5.8	F-M6	23.0	50.6	259	10.2	259	6.62	215	8.46
NTHT12-80	12	80	310	3200	5.0	F-M6	24.5	53.9	259	10.2	259	6.62	215	8.46
NTHT12-90	12	90	325	3500	4.5	F-M6	28.0	61.6	305	12.1	305	6.64	215	8.46
NTHT12-100	12	100	350	3500	4.2	F-M6	31.0	68.2	329	12.9	329	6.76	215	8.46
NTHT12-120	12	120	430	4500	3.3	F-M8	34.0	73.7	407	16.0	407	6.90	225	8.86
NTHT12-135	12	135	485	4600	3.1	F-M8	43.0	94.6	341	13.4	341	6.81	286	11.2
NTHT12-150	12	150	506	5000	2.7	F-M8	45.0	99.0	483	19.0	483	6.70	240	9.47
NTHT12-200	12	200	700	6000	2.4	F-M8	60.0	60.0	520	20.5	520	9.43	225	8.86
NTHT12-230	12	230	800	6300	2.2	F-M8	67.0	67.0	520	20.5	520	10.6	210	8.26
NTHT12-250	12	250	860	6600	2.0	F-M8	75.0	75.0	520	20.5	520	10.6	225	8.86



Plates: High Tin Pb alloy, optimized for high corrosion resistance and deep cycle use.

Separator: Highly porous glass micro-fibre separator, optimized for low internal resistance, for maximum Absorption of the electrolyte and for electrical separation.

Standard housing: Reinforced special high temperature resistant ABS container and cover adopted.

Terminals: Silver plated Copper female insert for easy and safe assembly and maintenance free connection with excellent conductivity.

Valves: Release gas in case of excess pressure and protects the cell against atmosphere.

High Rate MAX Range Discharge Amperes Data @ 25°C

Battery model	End VPC	Discharge Data Amperes										
		Discharge Time in Minutes					Discharge Time in Hours					
		5	15	30	45	60	2	3	5	8	10	20
NTHT1218	1.9	35.2	25.1	17.0	13.9	10.9	6.76	4.78	3.21	2.15	1.78	0.92
	1.85	45.0	30.9	19.5	15.8	12.1	7.10	5.09	3.37	2.23	1.79	0.97
	1.8	53.0	33.7	21.5	17.3	13.1	7.53	5.37	3.52	2.34	1.80	1.03
	1.75	59.1	36.3	22.6	18.1	13.6	7.79	5.55	3.55	2.40	1.98	1.04
NTHT1226	1.9	55.0	35.5	24.2	19.6	15.1	8.95	6.52	4.25	2.82	2.31	1.23
	1.85	67.6	41.4	27.2	22.1	16.9	9.81	7.11	4.62	3.07	2.51	1.34
	1.8	77.9	45.4	29.3	23.5	17.7	10.3	7.39	4.79	3.18	2.60	1.38
	1.75	86.2	47.7	30.3	24.3	18.2	10.5	7.55	4.89	3.23	2.64	1.40
NTHT1233	1.9	64.6	46.0	31.2	25.6	19.9	12.4	8.77	5.89	3.94	3.27	1.68
	1.85	82.5	56.6	35.8	28.9	22.2	13.0	9.33	6.18	4.09	3.28	1.79
	1.8	97.1	61.8	39.4	31.7	24.0	13.8	9.85	6.46	4.29	3.30	1.88
	1.75	108	66.5	41.4	33.2	25.0	14.3	10.18	6.51	4.39	3.63	1.91
NTHT1240	1.9	78.3	55.7	37.8	31.0	24.1	15.0	10.60	7.14	4.78	3.96	2.04
	1.85	100	68.6	43.4	35.1	26.9	15.8	11.30	7.49	4.96	3.97	2.17
	1.8	118	74.9	47.7	38.4	29.1	16.7	11.90	7.83	5.21	4.00	2.28
	1.75	131	80.6	50.2	40.3	30.3	17.3	12.30	7.89	5.33	4.39	2.32
NTHT1255	1.9	142	85.0	55.7	42.2	34.0	19.7	14.10	9.10	6.02	4.87	2.57
	1.85	166	98.0	62.7	47.0	37.4	21.5	15.30	9.80	6.50	5.29	2.79
	1.8	187	108	67.2	50.1	39.7	22.6	16.00	10.3	6.71	5.50	2.90
	1.75	206	113	69.9	51.8	40.8	23.1	16.40	10.5	6.93	5.61	2.95
NTHT1265	1.9	127	90.5	61.4	50.3	39.2	24.4	17.30	11.6	7.76	6.44	3.32
	1.85	163	111	70.5	57.0	43.7	25.6	18.40	12.2	8.06	6.45	3.52
	1.8	191	122	77.5	62.4	47.4	27.2	19.40	12.7	8.46	6.50	3.71
	1.75	214	131	81.5	65.5	49.2	28.1	20.10	12.8	8.65	7.14	3.77
NTHT1270	1.9	137	97.5	66.1	54.2	42.2	26.3	18.60	12.5	8.36	6.93	3.57
	1.85	175	120	75.9	61.4	47.1	27.6	19.80	13.1	8.68	6.95	3.79
	1.8	206	131	83.5	67.2	51.0	29.3	20.90	13.7	9.11	7.00	3.99
	1.75	230	141	87.8	70.5	53.0	30.3	21.60	13.8	9.32	7.69	4.06
NTHT1280	1.9	57	111	75.5	61.9	48.2	30.1	21.30	14.3	9.55	7.92	4.08
	1.85	200	137	86.7	70.2	53.8	31.5	22.60	15.0	9.92	7.94	4.33
	1.8	235	150.9	5.4	76.8	58.3	33.5	23.90	15.7	10.4	8.00	4.56
	1.75	263	161	100	80.6	60.6	34.6	24.70	15.8	10.7	8.79	4.64
NTHT1290	1.9	163	114	76.7	61.7	46.7	28.7	20.8	13.9	9.54	7.84	4.32
	1.85	207	136	86.9	70.3	53.8	31.8	23.2	15.2	10.3	8.57	4.63
	1.8	250	149	95.8	76.7	57.6	34.2	24.8	16.2	10.8	9.00	4.85
	1.75	285	162	101	81.3	61.2	35.0	25.4	16.7	11.1	9.19	4.96
NTHT12100	1.9	177	125	85.2	69.3	53.4	32.8	23.9	15.9	10.8	8.98	4.93
	1.85	231	155	105	83.5	62.5	35.7	25.9	17.0	11.5	9.59	5.31
	1.8	273	172	113	90.3	68.3	38.6	27.5	18.0	12.2	10.0	5.56
	1.75	311	184	119	94.5	69.9	39.5	28.4	18.4	12.5	10.3	5.68
NTHT12120	1.9	212	149	102	82.9	63.8	39.3	28.5	19.0	12.9	10.7	5.90
	1.85	276	185	125	99.8	74.7	42.7	31.0	20.4	13.7	11.4	6.34
	1.8	326	205	135	108	81.6	46.2	32.8	21.5	14.5	12.0	6.65
	1.75	372	220	143	113	83.5	47.3	34.0	22.0	14.9	12.3	6.79
NTHT12135	1.9	238	169	115	93.5	72.0	44.2	32.2	21.4	14.5	12.1	6.65
	1.85	312	208	141	113	84.3	48.1	34.9	23.0	15.4	12.9	7.15
	1.8	368	231	152	121	92.0	52.1	37.0	24.3	16.3	13.5	7.49
	1.75	420	247	161	127	94.2	53.3	38.3	24.7	16.9	14.0	7.66
NTHT12150	1.9	250	183	132	109	85.0	50.9	37.2	24.4	16.2	13.3	7.10
	1.85	313	188	152	123	95.8	55.4	40.9	26.7	17.6	14.4	7.72
	1.8	374	223	172	136	103	59.6	42.6	27.7	18.3	15.0	8.01
	1.75	423	260	181	144	107	61.0	43.8	28.3	19.2	15.3	8.12
NTHT12200	1.9	284	235	169	139	107	65.6	47.7	31.7	21.6	18.0	9.89
	1.85	377	282	198	161	125	71.3	51.7	34.1	23.1	19.2	10.6
	1.8	475	327	223	180	136	77.3	54.9	35.9	24.2	20.0	11.1
	1.75	516	355	236	189	140	79.0	56.8	36.8	25.0	20.7	11.4
NTHT12230	1.9	328	271	195	159	123	75.6	55.0	36.5	24.9	20.7	11.4
	1.85	435	325	228	186	145	82.1	59.5	39.3	26.5	22.1	12.2
	1.8	548	377	256	207	157	89.0	63.2	41.3	27.9	23.0	12.9
	1.75	594	409	272	217	161	91.0	65.5	42.5	28.8	23.8	13.1
NTHT12250	1.9	357	295	212	173	134	82.2	59.8	39.7	27.1	22.5	12.4
	1.85	473	353	248	202	158	89.2	64.7	42.7	28.8	24.0	13.3
	1.8	596	410	278	225	171	96.7	68.7	44.9	30.3	25.0	14.0
	1.75	646	445	296	236	175	98.9	71.2	46.2	31.3	25.9	14.2

High Rate MAX Range Discharge Watts Per Cell Data @ 25°C

Battery model	End VPC	Discharge Data Watts Per Cell @ 25°C									
		Discharge Time in Minutes									
		5	10	15	20	30	40	45	50	60	90
NTHT1218	1.75	97.7	82.3	69.2	56.6	43.2	33.9	30.6	28.5 2	3.9	18.6
	1.7	105	88.7	71.5	57.3	43.7	34.5	31.1	29.1	24.5	19.3
	1.67	114	92.1	72.0	58.4	44.2	34.7	31.6	29.3	25.2	19.6
	1.65	120	92.6	73.0	59.1	44.7	35.5	32.1	29.8	26.0	19.8
	1.6	123	94.6	73.3	59.7	45.0	35.7	32.4	30.3	26.5	20.4
NTHT1226	1.75	156	111	88.5	73.3	56.8	45.8	42.6	39.0	34.5	25.4
	1.7	166	114	92.7	75.0	57.7	46.5	43.5	40.1	34.9	25.6
	1.67	171	115	95.8	75.6	58.2	47.2	44.3	40.8	35.5	25.8
	1.65	172	116	96.3	76.3	59.0	47.7	45.0	41.2	35.9	26.1
	1.6	175	118	99.4	78.2	61.3	48.0	45.4	41.4	36.8	26.4
NTHT1233	1.75	179	151	127	104	79.2	62.2	56.1	52.3	43.7	34.1
	1.7	193	163	131	105	80.1	63.2	57.0	53.3	44.9	35.4
	1.67	210	169	132	107	81.1	63.6	58.0	53.7	46.2	35.9
	1.65	219	170	134	108	82.0	65.1	58.9	54.7	47.6	36.3
	1.6	226	173	134	109	82.5	65.5	59.4	55.6	48.6	37.5
NTHT1240	1.75	217	183	154	126	96.0	75.4	68.0	63.4	53.0	41.3
	1.7	234	197	159	127	97.1	76.6	69.1	64.6	54.4	42.9
	1.67	254	205	160	130	98.3	77.1	70.3	65.1	56.0	43.5
	1.65	266	206	162	131	99.4	78.9	71.4	66.3	57.7	44.1
	1.6	274	210	163	133	100	79.4	72.0	67.4	58.9	45.4
NTHT1255	1.75	310	236	195	156	118	96.5	90.0	83.5	72.0	52.1
	1.7	323	242	200	161	121	98.6	90.7	84.1	73.0	53.2
	1.67	335	246	203	166	123	99.5	92.0	85.0	73.5	53.7
	1.65	342	250	204	168	124	101	93.7	86.2	74.5	54.3
	1.6 3	50	254	206	170	126	103	94.8	88.0	76.3	55.1
NTHT1265	1.75	353	297	250	204	156	123	111	103	86.2	67.1
	1.7	381	320	258	207	158	124	112	105	88.4	69.6
	1.67	413	332	260	211	160	125	114	106	91.0	70.8
	1.65	432	334	264	214	162	128	116	108	93.8	71.6
	1.6	446	342	265	215	163	129	117	110	95.6	73.8
NTHT1270	1.75	380	320	269	220	168	132	119	111	92.8	72.3
	1.7	410	345	278	223	170	134	121	113	95.2	75.0
	1.67	445	358	280	227	172	135	123	114	98.0	76.2
	1.65	465	360	284	230	174	138	125	116	101	77.1
	1.6	480	368	285	232	175	139	126	118	103	79.5
NTHT1280	1.75	434	366	307	251	192	151	136	127	106	82.6
	1.7	469	394	318	255	194	153	138	129	109	85.7
	1.67	509	409	320	259	197	154	141	130	112	87.1
	1.65	531	411	325	263	199	158	143	133	115	88.1
	1.6	549	421	326	265	200	159	144	135	118	90.9

High Rate MAX Range Discharge Watts Per Cell Data @ 25°C

Battery model	End VPC	Discharge Data Watts Per Cell @ 25°C									
		Discharge Time in Minutes									
		5	10	15	20	30	40	45	50	60	90
NTHT1290	1.75	529	390	312	260	195	154	142	131	115	83.3
	1.7	560	398	320	265	196	158	146	134	118	87.2
	1.67	588	415	325	270	199	161	148	136	120	89.5
	1.65	593	420	330	272	202	163	150	139	123	91.6
	1.6	620	430	335	276	205	165	155	141	124	92.5
NTHT12100	1.75	558	398	328	278	220	182	165	151	131	93.7
	1.7	595	408	340	286	229	186	169	155	133	94.6
	1.67	605	423	350	295	236	192	173	157	135	95.8
	1.65	620	430	362	301	240	195	176	161	138	97.0
	1.6	635	439	375	305	245	199	180	163	140	98.1
NTHT12120	1.75	635	482	390	342	255	228	211	188	163	119
	1.7	675	508	405	349	259	231	214	190	165	121
	1.67	680	523	430	358	264	235	216	194	166	123
	1.65	719	531	434	362	266	237	218	196	168	124
	1.6	738	544	439	368	268	240	221	197	170	126
NTHT12135	1.75	685	516	440	383	300	246	225	212	191	141
	1.7	725	543	470	400	308	251	233	218	195	143
	1.67	750	578	485	410	316	256	238	223	198	144
	1.65	771	590	496	416	320	260	240	226	200	146
	1.6	785	608	510	425	326	265	243	228	201	148
NTHT12150	1.75	766	580	462	426	327	268	248	230	205	155
	1.7	805	608	490	445	331	274	254	236	211	158
	1.67	836	625	506	455	340	280	258	237	215	161
	1.65	860	638	510	462	346	286	261	239	216	163
	1.6	878	650	520	473	352	290	263	240	218	165
NTHT12200	1.75	1088	801	645	556	430	348	325	296	276	206
	1.7	1153	825	675	580	452	369	340	310	289	217
	1.67	1169	836	700	598	465	380	346	318	296	225
	1.65	1190	869	723	609	472	388	353	326	303	230
	1.6	1215	908	742	618	486	398	360	335	312	233
NTHT12230	1.75	1283	945	750	626	494	405	373	341	318	237
	1.7	1347	993	778	665	520	429	391	356	332	250
	1.67	1370	1030	800	686	535	440	398	366	341	259
	1.65	1396	1062	822	704	543	450	406	375	349	265
	1.6	1438	1090	845	718	559	461	414	385	359	268
NTHT12250	1.75	1386	1021	814	680	536	440	406	371	346	258
	1.7	1455	1074	845	722	565	466	425	387	361	272
	1.67	1480	1115	860	745	582	478	433	398	371	280
	1.65	1510	1150	892	765	591	489	441	409	380	286
	1.6	1555	1180	918	780	608	0502	450	418	390	291