

NP2-1000Ah

Valve-regulated lead-acid battery



GENERAL PURPOSE SERIES

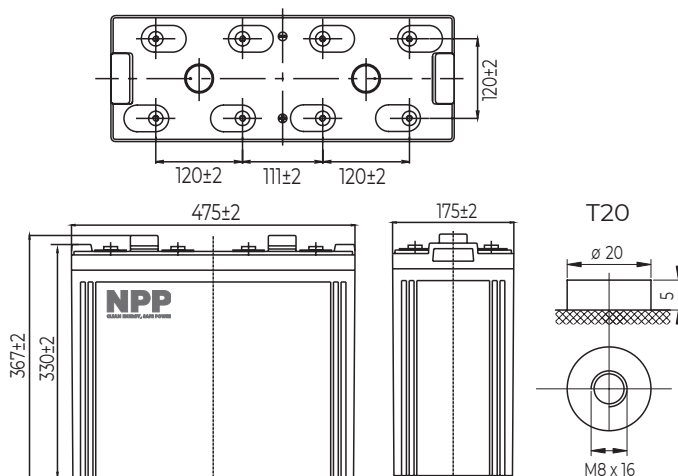
Characteristics

Nominal voltage		2V (1 cell per unit)
Nominal capacity at 10 hours rate/1.80V (25°C)		1000Ah
Capacity (25°C)	20 Hours rate/1.80V	1060Ah
	5 Hours rate/1.80V	870Ah
Terminal type		T20
Torque		12.3±2.5N.m
Approx. internal resistance (25°C)		0.27mΩ
Dimensions	Length	475±2mm (18.70inch)
	Width	175±2mm (6.89inch)
	Height	330±2mm (12.99inch)
	Total height	367±2mm (14.45inch)
Design Life (stand-by)	JIS at 25°C	15 years
	Eurobat at 20°C	>12 years
Weight		60.50kg (133.40lbs)±3%
Nominal operating temperature		25±3°C (77°F±5)
Operating temperature range	Discharge	-15°C~50°C (5°F~122°F)
	Charge	-10°C~50°C (14°F~122°F)
	Storage	-20°C~50°C (-4°F~122°F)
Float charging voltage at 25°C		2.25V~2.30V
Cyclic charging voltage at 25°C		2.40V~2.50V
Temperature compensation	Float charge	-3 mV/°C/Cell
	Cycle charge	-5 mV/°C/Cell
Max. charging current (A)		200A
Max. discharge current for 5 seconds		5500A
Self discharge rate (25°C)		≤3%/month
Battery container ABS UL94-HB		V-0 optional

Overview

NPP Power General Purpose series batteries are designed with state-of-the-art AGM (absorbent glass mat) technology, high-performance plates and electrolyte. With excellent value and characteristics, this range is suitable for all general purpose applications.

Dimensions & Terminal Type (mm)



Certification & Compliances



Compliant to: EUROBAT, RoHS, WEEE's and Reach.
Manufactured according to IEC 60896-21 / 22

Construction

Component	Positive Plate	Negative plate	Container	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS (V-0 opt.)	AGM	Sulfuric Acid	Rubber	Copper

Constant current discharge characteristics at 25°C

(Ampere/battery)

F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	1390	910	630	368	265	212	183	157	124	102	54.0
1.65V/cell	1357	892	611	366	264	211	182	156	123	102	53.8
1.70V/cell	1307	865	592	363	262	209	180	155	122	102	53.7
1.75V/cell	1262	844	573	358	260	208	179	154	122	101	53.4
1.80V/cell	1195	813	554	348	252	202	174	149	118	101	53.0

Constant power discharge characteristics at 25°C

(Watts/battery)

F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	2544	1702	1197	711	520	416	360	309	247	204	108
1.65V/cell	2483	1668	1161	707	517	413	358	308	245	203	108
1.70V/cell	2391	1617	1125	701	513	411	355	306	243	203	107
1.75V/cell	2310	1577	1089	690	510	408	353	303	242	201	107
1.80V/cell	2188	1520	1053	673	494	395	342	294	235	200	106

The above characteristics represent average values and can be obtained within three charge and discharge cycles. The batteries must be fully charged before testing. The data in this document is subject to change without notice and become contractual only after written confirmation. Please contact NPP Power for the latest available version.

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