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NPP
CLEAN ENERGY, SAFE POWER

Cyclic | AGM Gel | Solar & Wind | EV | Mobility | Railway

NPG12-250Ah

Valve-regulated lead-acid battery



SERIES

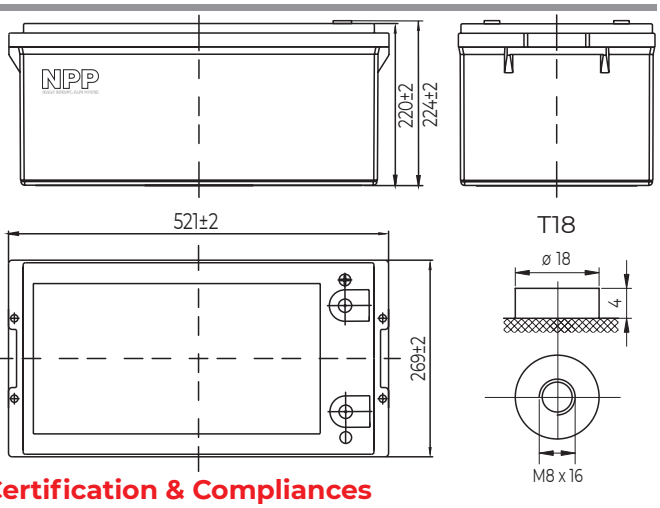
Characteristics

Nominal voltage		12V (6 cells per unit)
Nominal capacity at 20 hours rate/10.8V (25°C)		250Ah
Capacity (25°C)	3 Hours rate/10.8V	174Ah
	1 Hour rate/10.5V	127Ah
Terminal type		T18
Torque		12.3±2.5N.m
Approx. internal resistance (25°C)		2.8 mΩ
Dimensions	Length	521±2mm (20.51inch)
	Width	269±2mm (10.59inch)
	Height	220±2mm (8.66inch)
	Total height	224±2mm (8.82inch)
Design Life (stand-by)	JIS at 25°C	12 years
	Eurobat at 20°C	10/12 years
Weight		69.1kg (153.22lbs)±3%
Nominal operating temperature		25°C±3 (77±5°F)
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		13.5V~13.8V
Cyclic charging voltage at 25°C		14.5V~14.7V
Temperature compensation	Float charge	-18 mV/°C/Block
	Cycle charge	-30 mV/°C/Block
Max. charging current (A)		50A
Max. discharge current for 5 seconds		1400A
Self discharge rate (25°C)		≤3%/month
Battery container ABS UL94-HB		V-0 optional

Overview

NPP Power AGM GEL Series are manufactured following the highest demands in the deep cycle and renewable energy applications. The batteries use colloidal or foamed silica gel to immobilize the electrolyte, which further enhances the cycling stability. Available in top and front terminal types.

Dimensions & Terminal Type (mm)



Certification & Compliances

ISO 9001 | ISO 14001 | ISO 45001 | UL | IEC | CQC | TLC

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	AGM	Sulfuric Acid Gel	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
9.60V	386	231	142	84	60.5	48.3	41.3	35.9	28.4	23.4	12.7
9.90V	377	227	140	83.5	60.2	48	41	35.7	28.2	23.4	12.7
10.2V	363	220	136	82.8	59.8	47.7	40.8	35.4	28	23.3	12.6
10.5V	351	214	132	81.6	59.3	47.4	40.5	35.2	27.8	23.2	12.6
10.8V	332	206	128	79.5	57.6	46	39.3	34.1	27	23	12.5

Constant power discharge characteristics at 25°C

(Watts/battery)

F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	4243	2594	1620	973	712	568	488	424	337	280	149
9.90V	4141	2542	1596	967	708	565	485	422	335	279	149
10.2V	3988	2646	1556	959	703	561	482	419	333	278	148
10.5V	3852	2404	1507	944	698	557	478	416	331	277	147
10.8V	3649	2316	1458	920	677	540	464	403	321	275	146

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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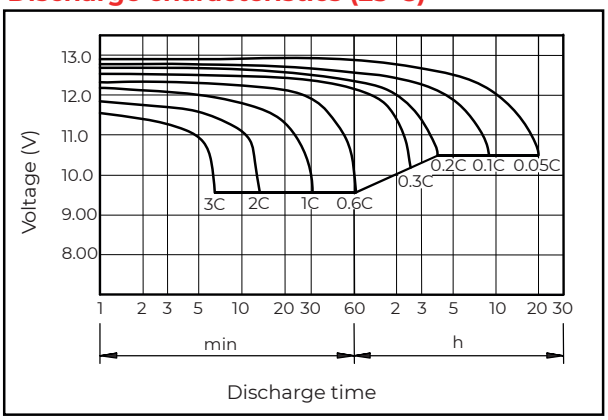
Rev. 240622CN-KK

NPG12-250Ah

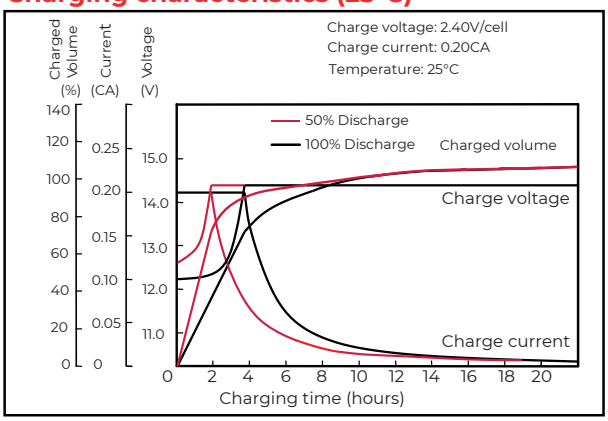
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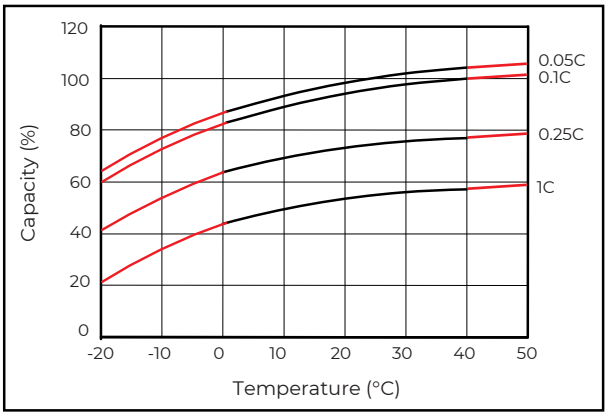
Discharge characteristics (25°C)



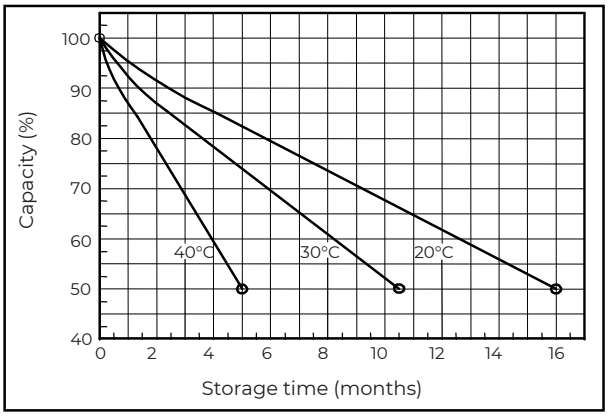
Charging characteristics (25°C)



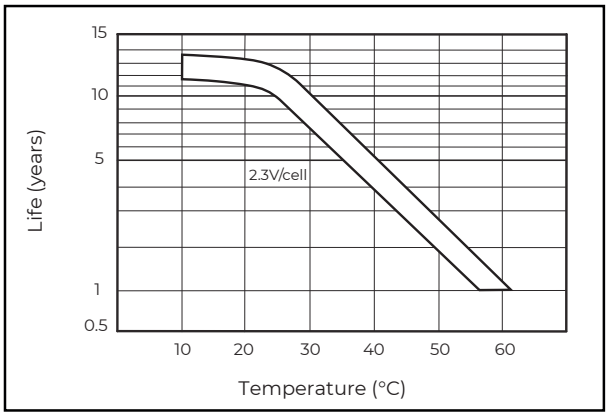
Temperature effects on capacity



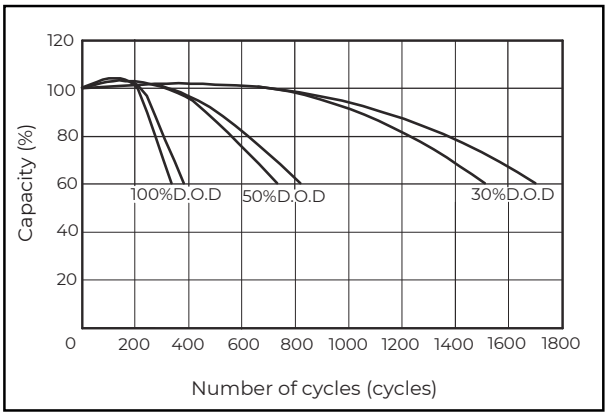
Self-discharge characteristics



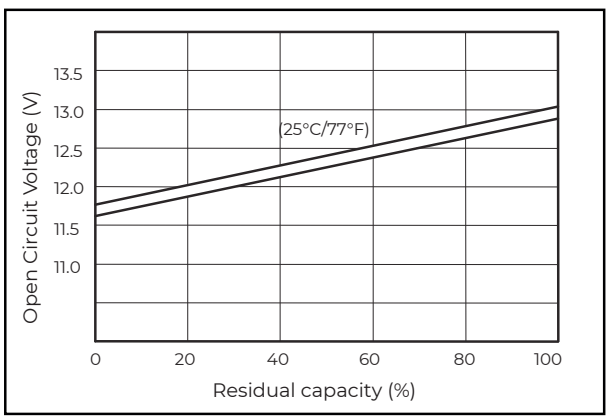
Floating life on temperature



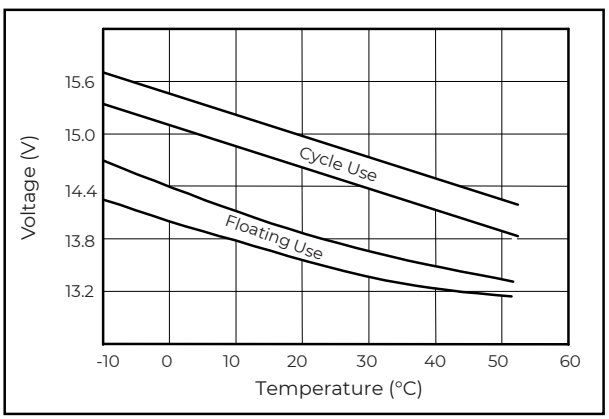
Cycle life on D.O.D (25°C)



Relationship for OCV and capacity (25°C)



Charging voltage VS temperature



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