





**GENERAL PURPO** 









# **NP12-18Ah**



# **Characteristics**

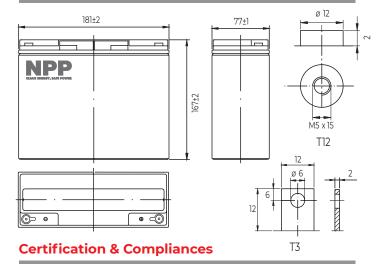
Nominal voltage	12V (6 cells per unit)					
Nominal capacity	18Ah					
Capacity (25°C)	10 Hours rate/10.5V	16.8Ah				
Capacity (25 C)	5 Hours rate/10.5V	15.4Ah				
Terminal type	T3/T12					
Torque	3.0±0.6N.m					
Approx. internal r	esistance (25°C)	15.0mΩ				
	Length	181±2mm (7.13inch)				
Dimana	Width	77±1mm (3.03inch)				
Dimensions	Height	167±2mm (6.57inch)				
	Total height	167±2mm (6.57inch)				
Design Life	JIS at 25°C	5 years				
(stand-by)	Eurobat at 20°C	3-5 years				
Weight	5.30kg (11.68lbs)±4%					
Nominal operation	Nominal operating temperature					
Operating	Discharge	-15°C~50°C (5°F~122°F)				
temperature	Charge	-10°C~50°C (14°F~122°F)				
range	Storage	-20°C~50°C (-4°F~122°F)				
Float charging vo	ltage at 25°C	13.6V~13.8V				
Cyclic charging v	oltage at 25°C	14.5V~15.0V				
Temperature	Float charge	-18 mV/°C/Block				
compensation	Cycle charge	-30 mV/°C/Block				
Max. charging cu	5.4A					
Max. discharge cu	270A					
Self discharge rat	≤3%/month					
Battery container	ABS UL94-HB	V-0 optional				

## **Overview**

SERIES

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)**















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

Component	Positive Plate	Negative plate	Container	Separator	Electrolyte	Sefety 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	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	68.8	43.6	34	19.2	11.8	6.45	4.46	3.69	3.14	1.70	0.91
9.90V	66.7	42.3	33.2	18.8	11.6	6.41	4.44	3.67	3.12	1.70	0.91
10.2V	63.9	40.5	32.0	18.2	11.3	6.35	4.40	3.64	3.10	1.69	0.91
10.5V	61.2	38.8	30.9	17.8	11.1	6.26	4.37	3.62	3.08	1.68	0.90
10.8V	57.8	36.6	29.3	17.1	10.8	6.10	4.24	3.51	2.99	1.65	0.88

## Constant power discharge characteristics at 25°C

(Watts/battery)

F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	767	491	388	220	137	75.5	53.0	44.0	37.5	20.5	11.0
9.90V	744	477	379	215	134	75.0	52.7	43.7	37.3	20.4	10.9
10.2V	714	457	365	209	131	74.3	52.3	43.4	37.0	20.3	10.9
10.5V	683	437	352	204	128	73.2	52.0	43.1	36.8	20.2	10.8
10.8V	645	413	334	196	125	71.4	50.4	41.8	35.6	19.7	10.6

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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