













## NP12-45Ah

Valve-regulated lead-acid batter

## Characteristics

Nominal voltage	12V (6 cells per unit)				
Nominal capacity	45Ah				
Capacity (2E°C)	20 Hours rate/10.8V	47.8Ah			
Capacity (25°C)	5 Hours rate/10.8V	38.4Ah			
Terminal type		T14			
Torque	5.1±0.6N.m				
Approx. internal re	7.5mΩ				
	Length	197±2mm (7.76inch)			
D:	Width	165±2mm (6.50inch)			
Dimensions	Height	170±2mm (6.69inch)			
	Total height	170±2mm (6.69inch)			
Design Life	JIS at 25°C	10 years			
(stand-by)	Eurobat at 20°C	10/12 years			
Weight	13.80kg (30.40lbs)±3%				
Nominal operating	25°C±3 (77±5°F)				
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 vol	tage at 25°C	13.5V~13.8V			
Cyclic charging vo	14.5V~15.0V				
Temperature	Float charge	-18 mV/°C/Block			
compensation	Cycle charge	-30 mV/°C/Block			
Max. charging cur	13.5A				
Max. discharge cu	400A				
Self discharge rate	≤3%/month				
Battery container	V-0 optional				

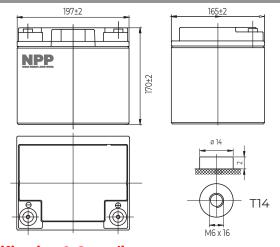
# **GENERAL PURPOSE**

### SERIES

#### **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

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	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	98.1	75.6	45.2	27.8	16.4	11.8	9.46	8.08	5.55	4.58	2.43
9.90V	95.2	73.8	44.3	27.4	16.3	11.8	9.40	8.03	5.52	4.57	2.42
10.2V	91.2	71.1	43.0	26.7	16.2	11.7	9.33	7.98	5.48	4.56	2.42
10.5V	87.3	68.6	41.9	25.9	16.0	11.6	9.27	7.92	5.45	4.53	2.40
10.8V	82.4	65.0	40.4	25.0	15.6	11.3	8.99	7.68	5.28	4.50	2.39

#### Constant power discharge characteristics at 25°C

(Watts/battery)

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1059	830	507	317	190	139	111	95.5	66.0	54.7	29.1
9.90V	1028	810	497	312	189	138	111	94.9	65.6	54.6	29.1
10.2V	985	780	482	304	188	137	110	94.3	65.1	54.4	29.0
10.5V	943	754	470	295	185	137	109	93.6	64.7	54.1	28.8
10.8V	890	714	453	285	180	132	106	90.8	62.7	53.7	28.6

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.

#### NPP Power (Vietnam) Co.,Ltd

Lot A22.3, Road C4, Thanh Thanh Cong Industrial Zone, An Hoa Village, Trang Bang District, Tay Ninh Province, Vietnam

#### Guangzhou NPP Power Co, Ltd.

No.67 Lianglong Road, Huashan Town, Huadu District, Guangzhou, China Email: info@nppower.com.cn Tel. +86 20 37887 390