


NPL1255 (VRLA AGM BATTERY)

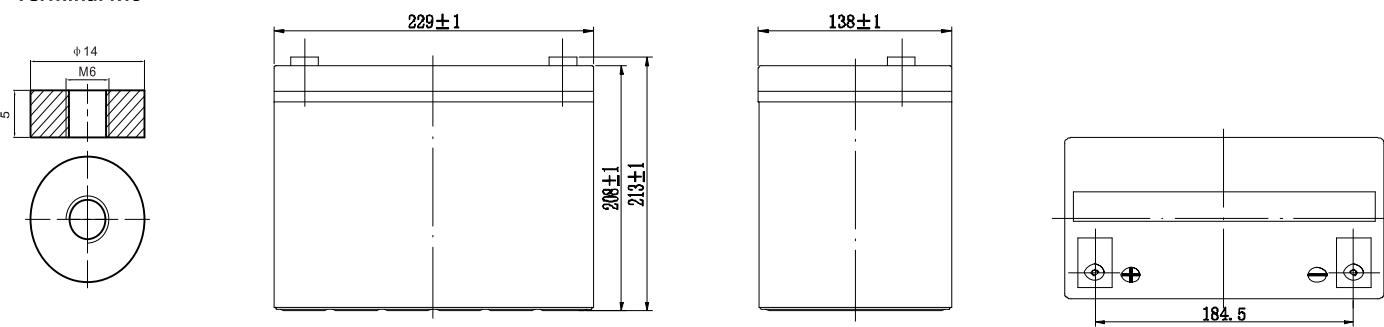
12V 55Ah



Neutron Power NPL series are designed with AGM (Absorbent Glass Mat) technology and for general-purpose applications, such as UPS, telecom, and electrical utilities. These batteries comply to most popular international standards, such as IEC60896-21/22, BS6290-4, Eurobat Guide. The battery container and cover are available both in V0 class flame retardant ABS or HBO ABS plastics too.

Neutron Power batteries meet the standards JIS, DIN, IEC60896-21/22 & BS6290-4. We have obtained ISO9001 & ISO14001 certification, UL approval (MH46127) and CE approval for all types of batteries. All these render our batteries to be compatible with requirements of world-level equipments.

Performance Characteristics		
General Information	Length	229mm (9.02 Inch)
	Width	138mm (5.43 Inch)
	Height	208mm (8.19 Inch)
	Total Height	213mm (8.39 Inch)
	Approx Weight	18 Kg
	Nominal Voltage	12 Volt
	Number of Cells	6
	Nominal Capacity (10 hour rate)	55 Ah
	Design float life expectancy under normal operation conditions at 25°C	10 Years
	Terminal	M6
Casing Material	Standard (ABS)	
	Optional - V0 Class Flame Retardant (ABS)	
Nominal Capacity 77°F (25°C)	10 hour rate (5.50A, 10.8V)	55 Ah
	5 hour rate (9.23A, 10.5V)	46.2 Ah
	1 hour rate (35.1A, 9.60V)	35.1 Ah
Internal Resistance	Fully Charged Battery 77°F (25°C) ≤ 7.2 mOhms	
Self Discharge	3% of capacity declined per month at 20°C (average)	
Operating Temperature Range	Discharge	-20 ~ 60°C
	Charge	-10 ~ 60°C
	Storage	-20 ~ 60°C
Max. Discharge 77°F (25°C)	550A (5s)	
Short Circuit Current	1400A	
Charge Methods	Constant Voltage Charge 77°F (25°C)	
	Cycle use 2.40 - 2.45VPC	
	Standby use 2.20 - 2.30VPC	
	Temperature compensation -20mV/°C	
	Maximum charging current 16.5A	
Battery Certification	 MH46127 UL CERTIFIED - MH46127	

Outer Dimension			
Terminal M6			

* The above characteristics data are average values obtained within three charge/discharge cycles not the minimum value. Neutron Power reserves the rights update the data information without prior notice.

Constant Current Discharge Data (Amperes at 25°C)								
F.V./Time	10Min	15Min	30Min	45Min	1Hr	3Hr	5Hr	10Hr
1.60V	129	99.4	59.2	43.1	35.1	14.6	9.82	5.65
1.65V	124	95.4	57.4	41.9	34.2	14.2	9.57	5.62
1.70V	115	90.6	55.6	40.7	33.3	13.9	9.4	5.58
1.75V	106	85.8	53.8	39.6	32.5	13.6	9.23	5.54
1.80V	99.8	79.5	51.9	38.4	31.7	13.3	9.06	5.5

Constant Power Discharge Data (Watts per cell at 25°C)								
F.V./Time	10Min	15Min	30Min	45Min	1Hr	2Hr	3Hr	5Hr
1.60V	229	182	111	85.3	68.9	39.1	29.1	18.8
1.65V	225	177	109	84	67.3	38.2	28.5	18.6
1.70V	213	169	107	82.3	65.8	37.4	27.9	18.2
1.75V	200	162	105	80.5	64.3	36.6	27.3	18
1.80V	186	154	104	78.4	64	36	26.7	17.9

