

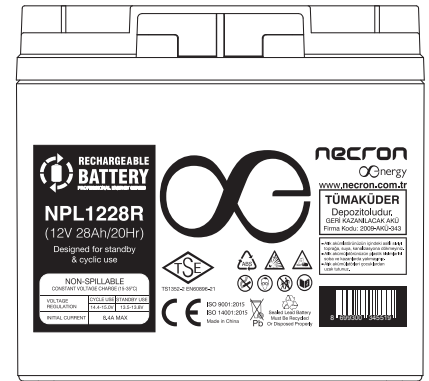
NPL1228R

Black Line 12V 28Ah



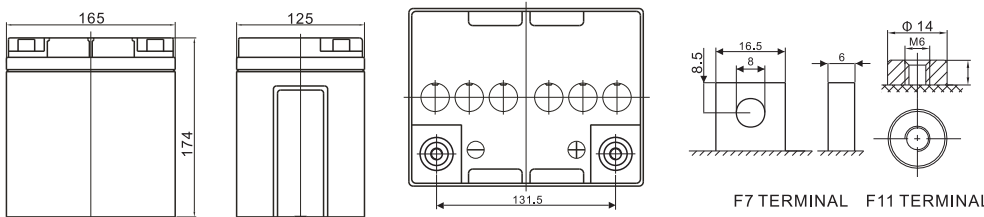
Specifications

Cells Per Unit	6	
Voltage Per Unit	12V	
Capacity	28Ah @20 Hour Rate to 1.75V Per Cell @25°C	
Weight	Approx. 8.80Kg (Tolerance ± 5%)	
Internal Resistance	≤ 9 mΩ (Full Charge Condition @25°C)	
Terminal	Default F11 (M6), F7 (M8) Optional	
Max. Discharge Current	280A (5 Sec)	
Short Circuit Current	880A	
Design Life	6-8 Years	
Max. Charging Current	8.4A	
Reference Capacity	C ₃ 21.0Ah C ₅ 23.8Ah	C ₁₀ 26.2Ah C ₂₀ 28.0Ah
Float Charging Voltage	13.5V ~ 13.8V @25°C Temperature Compensation: -3mV/°C/ Cell	
Cycle Charging Voltage	14.6V ~ 14.8V @25°C Temperature Compensation: -4mV/°C/ Cell	
Operating Temperature Range	Discharge: -20°C ~ 60°C Charge: 0°C ~ 50°C Storage: -20°C ~ 60°C	
Normal Operating Temperature Range	25°C ± 5°C	
Self Discharge	NECRON Valve Regulated Lead Acid (VRLA) batteries can be stored for up 6 months at 25°C and then recharging is recommended. Months Self-discharge ratio is less than 3% at 25°C. Please charge batteries before using.	
Container Material	A.B.S UL94-HB, UL94-V0 Optional	



NPL1228R series is a general purpose battery with 6~8 years design life in float service. It meets with IEC, JIS, BS, GB/T and YD/T standards. With advanced AGM valve regulated technology and high purity raw material, the NPL1228R series battery maintains high consistency for better performance and reliable standby service life. It is suitable for UPS/EPS, medical equipment, emergency light and security system applications.

Dimensions



Length	165±1.5mm (6.50 inches)	
Width	125±1.5mm (4.92 inches)	
Height	174±1.5mm (6.85 inches)	
Total Height	174±1.5mm (6.85 inches)	
Terminal	Value	
M5	6~7	N*m
M6	8~10	N*m
M8	10~12	N*m

Unit: mm

Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	95.88	69.19	50.53	29.32	16.25	10.50	7.896	6.375	5.282	3.399	2.761	1.458
1.65V	89.16	65.38	48.31	28.15	15.69	10.17	7.652	6.202	5.145	3.361	2.727	1.435
1.70V	80.44	60.19	45.25	26.90	15.18	9.833	7.444	6.034	5.011	3.309	2.686	1.417
1.75V	72.07	55.09	42.10	25.71	14.63	9.490	7.222	5.879	4.885	3.264	2.651	1.400
1.80V	63.28	49.87	38.88	24.58	14.07	9.150	6.999	5.710	4.759	3.208	2.617	1.386
1.85V	50.23	40.76	32.26	21.17	12.62	8.384	6.470	5.308	4.438	3.012	2.463	1.316

Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	158.9	117.6	88.33	53.25	30.54	19.91	15.08	12.24	10.181	6.639	5.427	2.870
1.65V	149.5	113.3	85.70	51.66	29.66	19.37	14.68	11.95	9.954	6.578	5.368	2.829
1.70V	138.0	106.2	81.47	49.87	28.88	18.83	14.34	11.67	9.729	6.492	5.295	2.798
1.75V	126.4	98.96	76.92	48.16	27.99	18.26	13.97	11.42	9.517	6.414	5.231	2.767
1.80V	113.3	91.14	72.03	46.49	27.08	17.69	13.59	11.13	9.304	6.319	5.171	2.743
1.85V	91.83	75.81	60.62	40.44	24.43	16.30	12.62	10.38	8.705	5.946	4.875	2.609

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values. The battery must be fully charged before the capacity test. The C₂₀ should reach 95% after the first cycle and 100% after the third cycle.



