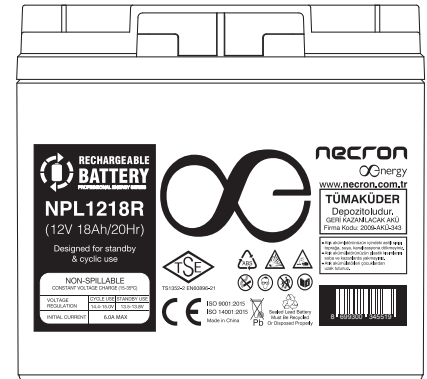


# NPL1218R

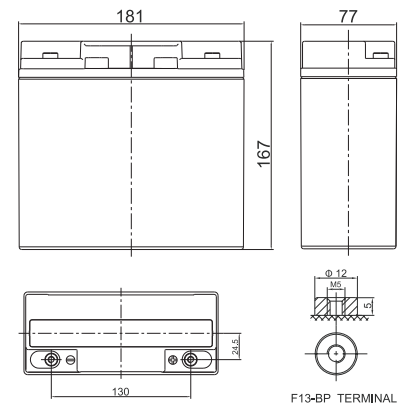
Black Line 12V 18Ah

## Specifications

Cells Per Unit	6			
Voltage Per Unit	12V			
Capacity	18Ah 10 Hour Rate to 1.75V Per Cell @25°C			
Weight	Approx. 5.40Kg (Tolerance ± 5%)			
Internal Resistance	≤ 16 mΩ (Full Charge Condition @25°C)			
Terminal	Default F13-BP (M5), F3 (M5) Optional			
Max. Discharge Current	200A (5 Sec)			
Short Circuit Current	820A			
Design Life	6-8 Years			
Max. Charging Current	6.0A			
Reference Capacity	C <sub>3</sub> 15.0Ah	C <sub>10</sub> 18.7Ah	C <sub>5</sub> 17.0Ah	C <sub>20</sub> 20.0Ah
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 to 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			



## Layout



### 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	75.88	53.63	38.77	22.27	12.22	7.503	5.640	4.553	3.773	2.428	1.972	1.041
1.65V	70.56	50.68	37.06	21.38	11.80	7.263	5.466	4.430	3.675	2.401	1.948	1.025
1.70V	63.67	46.65	34.71	20.43	11.42	7.024	5.317	4.310	3.579	2.364	1.919	1.012
1.75V	57.04	42.70	32.30	19.53	11.00	6.778	5.159	4.199	3.489	2.331	1.893	1.000
1.80V	50.09	38.66	29.83	18.67	10.58	6.536	4.999	4.079	3.399	2.291	1.869	0.990
1.85V	39.75	31.59	24.75	16.08	9.488	5.988	4.621	3.791	3.170	2.151	1.760	0.940

### 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	125.8	91.16	67.77	40.44	22.96	14.22	10.77	8.742	7.272	4.742	3.877	2.050
1.65V	118.3	87.80	65.75	39.23	22.30	13.83	10.48	8.537	7.110	4.699	3.835	2.021
1.70V	109.2	82.32	62.51	37.88	21.71	13.45	10.24	8.336	6.949	4.637	3.782	1.999
1.75V	100.0	76.71	59.01	36.58	21.04	13.04	9.981	8.154	6.798	4.582	3.737	1.977
1.80V	89.68	70.65	55.26	35.31	20.36	12.64	9.710	7.948	6.646	4.514	3.694	1.960
1.85V	72.68	58.76	46.51	30.72	18.37	11.64	9.016	7.415	6.218	4.247	3.482	1.863

