



SLAUMXNP45-12

Specifications

Nominal Voltage (V) 12V

Nominal Capacity

20hour rate (2.25A to 10.50V)	45Ah
10hour rate (4.5A to 10.50V)	42.75Ah
5hour rate (7.65A to 10.20V)	38.25Ah
1C (45A to 9.60V)	25.5Ah
3C (135A to 9.60V)	18Ah

Weight Approx.15.30kg

Internal Resistance (at 1KHz) 6 mΩ

Maximum Discharge Current for 5 seconds : 540A

Operating Temperature Range

Charge	-15°C (5°F) to 40°C (104°F)
Discharge	-15°C (5°F) to 50°C (122°F)
Storage	-15°C (5°F) to 40°C (104°F)

Charge Retention (shelf life) at 20°C (68°F)

1 month	92%
3 month	90%
6 month	80%

Charging Methods at 20°C (68°F)

Cycle use:

Charging Voltage 14.4 to 15.0V
Maximum Charging Current : 13.5A

Standby use :

Float Charging Voltage 13.50 to 13.80V

Life expectancy :

Cycle Use :

100% depth of discharge 200 cycles
80% depth of discharge 225 cycles
50% depth of discharge 500 cycles

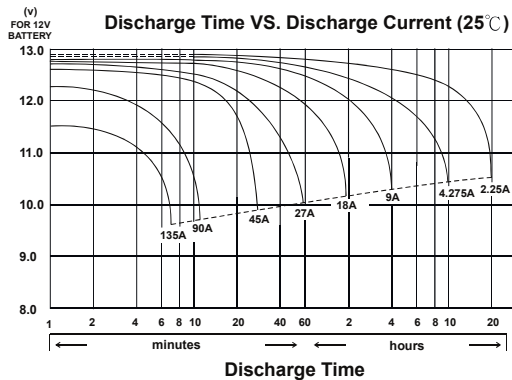
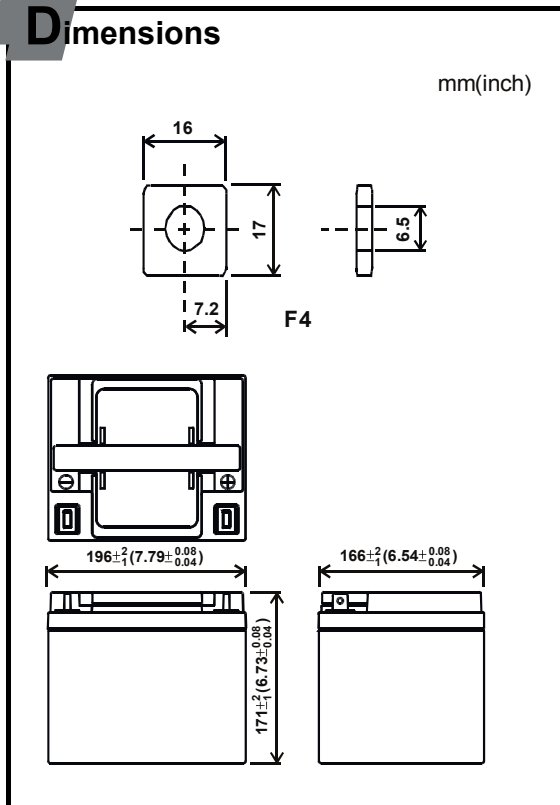
Standby Use : 3~5years

Case Material ABS

(Option : 94-HB & 94V-0 flame retardant case)

Terminal F4

Dimensions



All data on the spec. sheet is an average value:

The tolerance range : $X < 6\text{min}(+15\% \sim -15\%)$, $6\text{min} \leq X < 10\text{min}(+12\% \sim -12\%)$, $10\text{min} \leq X < 60\text{min}(+8\% \sim -8\%)$, $X \geq 60\text{min}(+5\% \sim -5\%)$

PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25°C

End Voltage		11.10V	10.80V	10.50V	10.20V	9.90V	9.60V
Time							
5	min	1403	1541	1806	1932	1967	2174
10	min	1003	1107	1208	1277	1357	1449
15	min	910	949	1007	1040	1066	1097
30	min	560	589	612	629	635	650
60	min	306	312	316	320	323	329
120	min	201	204	207	210	212	216
180	min	130	132	134	137	138	142
240	min	103	105	108	110	111	115
300	min	85.4	87.5	88.9	91.0	91.7	93.8
600	min	50.1	51.5	52.2	52.9	53.6	54.4
1200	min	25.5	26.8	26.8	27.4	28.0	28.7

Discharge Rates in Amperes to Various End Voltages at 25°C

End Voltage		11.10V	10.80V	10.50V	10.20V	9.90V	9.60V
Time							
5	min	122	134	157	168	171	189
10	min	87.2	96.3	105	111	118	126
15	min	79.1	82.5	87.6	90.4	92.7	95.4
30	min	48.7	51.2	53.2	54.7	55.2	56.5
60	min	26.6	27.1	27.5	27.8	28.0	28.6
120	min	17.5	17.7	18.0	18.3	18.4	18.8
180	min	11.3	11.5	11.7	11.9	12.0	12.3
240	min	8.95	9.13	9.38	9.56	9.68	9.99
300	min	7.43	7.61	7.73	7.92	7.98	8.16
600	min	4.36	4.48	4.54	4.60	4.67	4.73
1200	min	2.22	2.33	2.33	2.38	2.44	2.49