

ES22-12C

SPECIFICATIONS

Nominal Voltage (V) 12V

Nominal Capacity

 20 hour rate (1.1A to 10.50V)
 22Ah

 10 hour rate (2.09A to 10.50V)
 20.9Ah

 5 hour rate (3.74A to 10.20V)
 18.7Ah

 1C (22A to 9.60V)
 12.47Ah

 3C (66A to 9.60V)
 8.8Ah

Weight Approx. 15.18Lbs. (6.9kg)

Internal Resistance (at 1KHz) Approx. 9 m Ω

Maximum Current Resistance:

5 seconds: 330A

Operating Temperature Range

 $\begin{array}{lll} \text{Charge} & -15^{\circ}\text{C (}5^{\circ}\text{F) to }40^{\circ}\text{C (}104^{\circ}\text{F)} \\ \text{Discharge} & -15^{\circ}\text{C (}5^{\circ}\text{F) to }50^{\circ}\text{C (}122^{\circ}\text{F)} \\ \text{Storage} & -15^{\circ}\text{C (}5^{\circ}\text{F) to }40^{\circ}\text{C (}104^{\circ}\text{F)} \\ \end{array}$

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

 1 month
 97%

 3 months
 92%

 6 months
 85%

Charging Methods at 25°C (77°F)

Cycle Use: Charging Voltage 14.4 to 15.0V Coefficient -5.0mv / °C / cell

Maximum Charging Current : 6.6A

Standby Use: Float Charging Voltage 13.50 to 13.80V

Coefficient -3.0mv / °C / cell

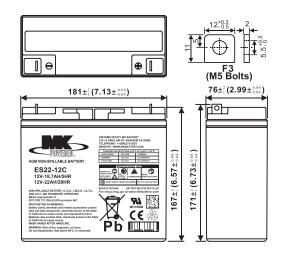
Case Material: ABS UL94HB

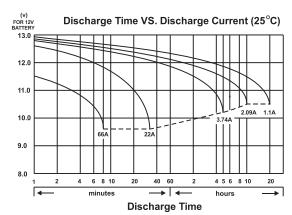
Terminal: F3

Maintenance-Free Rechargeable Sealed Lead-Acid Battery



DIMENSIONS







1631 South Sinclair Street • Anaheim, California 92806

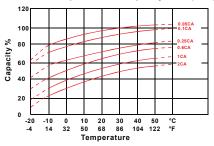
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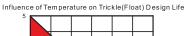


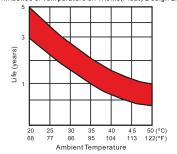


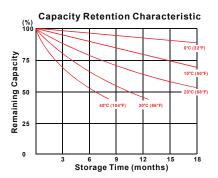
ES22-12C

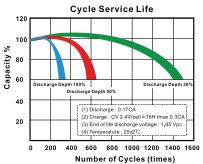
Effect of Temperature on Capacity 25°C (77°F)











- PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25°C (77°F)

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	136	152	164	171	173	175	177
10	min	88.3	99.7	107	112	113	114	116
15	min	67.4	75.1	80.1	83.2	84.1	85.0	85.8
30	min	39.8	43.9	46.6	48.3	48.8	49.3	49.7
60	min	25.2	26.0	26.7	27.1	27.3	27.4	27.6
120	min	15.2	15.5	15.7	15.9	16.0	16.1	16.2
180	min	10.8	11.1	11.3	11.4	11.5	11.5	11.6
240	min	8.60	8.87	9.02	9.14	9.19	9.24	9.31
300	min	7.25	7.48	7.65	7.78	7.84	7.87	7.91
600	min	4.12	4.32	4.47	4.57	4.60	4.63	4.67
1200	min	2.20	2.28	2.35	2.41	2.42	2.44	2.45

- Discharge Rates in Amperes to Various End Voltages at 25°C (77°F)

	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	74.8	83.3	90.1	97.6	99.3	102	105
10	min	48.1	54.0	57.4	59.9	60.8	61.5	62.3
15	min	36.6	41.4	43.1	44.4	44.8	45.3	45.9
30	min	20.0	22.1	23.5	24.2	24.4	24.7	25.1
60	min	12.4	12.8	13.1	13.4	13.5	13.6	13.8
120	min	7.61	7.83	7.98	8.12	8.16	8.21	8.27
180	min	5.32	5.51	5.64	5.75	5.79	5.83	5.88
240	min	4.17	4.33	4.45	4.54	4.58	4.61	4.65
300	min	3.56	3.68	3.77	3.84	3.87	3.89	3.92
600	min	2.06	2.14	2.21	2.26	2.27	2.29	2.31
1200	min	1.07	1.12	1.16	1.19	1.20	1.21	1.22

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