

X-CEL 12V40Ah

12VX40

- Valen X-CEL range features a deep cycle, rechargeable, Valve Regulated Lead Acid (VRLA) battery. Based on Absorbent Glass Matting (AGM) construction, the Valen X-CEL range is a safe and maintenance-free battery solution, while carrying the advantages of the X-CEL technology.
- Unique high purity virgin lead plates incorporating 1.6% tin assist in reducing both battery sulphation and plate delamination, therefore substantially extending the battery's life.
- Advanced X-CEL Technology and high purity virgin lead plates, including the unique tin formula, gives the Valen X-CEL a 10-year standby design life.
- Maintenance-Free design
- FAA and IATA Approved and is safe for air transportation



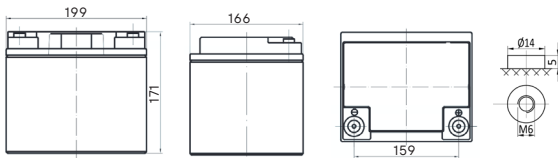


12VX40

BATTERY SPECIFICATIONS



Dimensions



Specifications

Nominals Voltage	12V
Number of Cells	6
Design life	10 years
Normal Capacity 25°	
20 Hr rate (10.5V)	42Ah
10 Hr rate (10.5V)	40.7Ah
5 Hr rate (10.5V)	35Ah
Dimensions	199(L) x 166(W) x 171(H)mm
Weight	14.7kg
Terminal	M6
Torque Setting	10.5Nm
Charge voltage	Cycle: 14.4 - 14.7V at 25°C Float: 13.2 - 13.8V at 25°C
Internal resistance	9.5mΩ 25°C - Fully charged Battery
Electrolyte	Sulphuric acid
Operating Temperature	-20°C to +60°C

Discharge Constant Current (Amperes at 25°C)

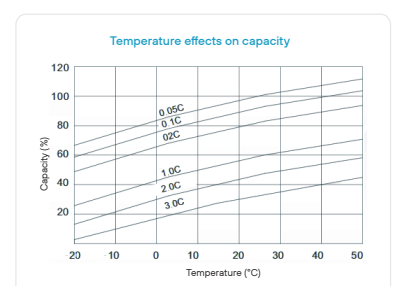
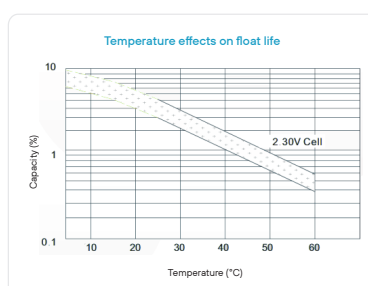
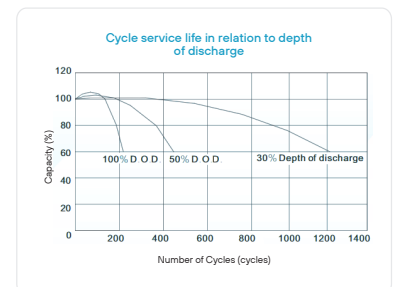
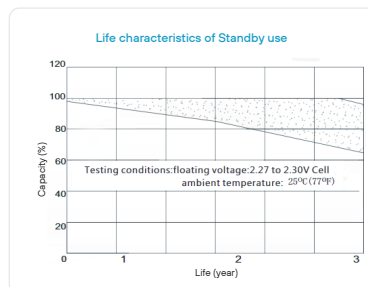
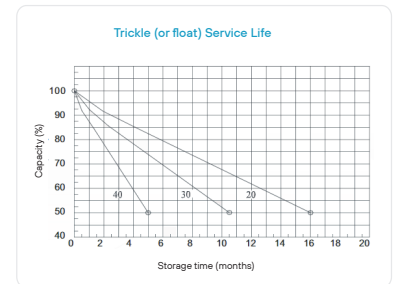
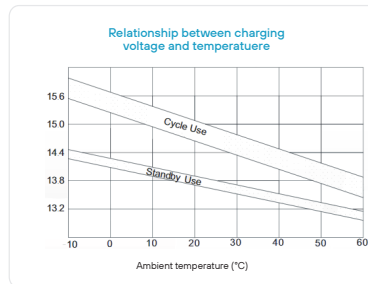
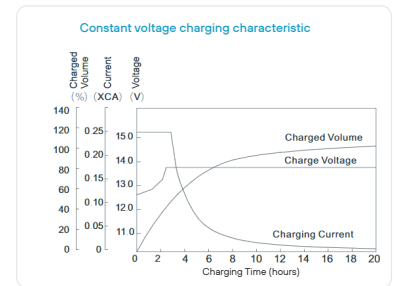
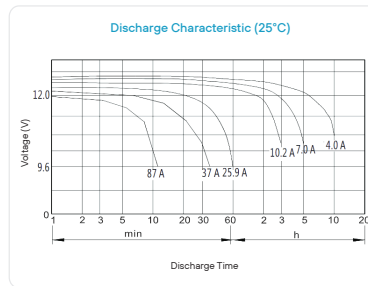
End Point Volts / Cell	15 min	30 min	1 hour	3 hour	5 hour	10 hour	20 hour
1.75V	64.9	38	24.9	9.95	7	4.07	2.10

Discharge Constant Power (Watts at 25°C)

End Point Volts / Cell	15 min	30 min	1 hour	3 hour	5 hour	10 hour	20 hour
1.75V	120	77.7	49.5	20.6	13.7	NA	NA

(However it is recommended that the batteries be operated in the temperature range of 20 to 30°C to obtain full life and optimum performance.)

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Specifications subject to change without notice.



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PERFORMANCE DATA

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Discharge Constant Power (Watts at 25°C)

End Voltage Time		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	233	280	314	336	341	347	354
10	min	148	178	200	214	217	221	225
15	min	116	136	150	159	162	164	167
30	min	62.0	73.0	80.5	85.4	86.5	88.1	89.4
60	min	48.8	51.8	53.6	54.9	55.3	55.9	56.4
120	min	25.7	27.3	28.2	28.9	29.2	29.5	29.7
180	min	20.5	21.8	22.5	23.1	23.2	23.5	23.7
240	min	16.4	17.4	18.0	18.4	18.7	18.8	19.0
300	min	14.0	14.9	15.4	15.7	15.9	16.0	16.2
600	min	8.23	8.74	9.04	9.26	9.35	9.44	9.52
1200	min	4.34	4.61	4.76	4.88	4.93	4.98	5.02

Discharge Constant Current (Amperes at 25°C)

End Voltage Time		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	127	153	171	183	186	190	193
10	min	79.5	95.6	107	114	116	118	121
15	min	60.3	71.0	78.3	83.1	84.2	85.6	87.0
30	min	31.7	37.3	41.1	43.6	44.2	45.0	45.7
60	min	24.6	26.1	27.0	27.7	27.9	28.2	28.4
120	min	12.9	13.7	14.2	14.6	14.7	14.8	14.9
180	min	10.3	10.9	11.3	11.5	11.6	11.8	11.9
240	min	8.20	8.70	9.00	9.22	9.31	9.40	9.48
300	min	6.97	7.40	7.65	7.84	7.91	7.99	8.06
600	min	4.10	4.35	4.50	4.61	4.65	4.70	4.74
1200	min	2.15	2.28	2.36	2.42	2.44	2.47	2.49