ENVIROX-CEL 12V155Ah

12EOFT155

- Valen ENVIROX-CEL Front Terminal range features a rechargeable, deep cycle, Valve Regulated Lead Acid (VRLA) battery.
- Battery construction is based on the Absorbent Glass Matting (AGM) safe and maintenance-free technology. However, the Valen ENVIROX-CEL is manufactured with unique high purity virgin lead plates, incorporating calcium, allowing for an extremely long float life performance
- Maintenance-Free Design
- Valen ENVIROX-CEL's inclusion of Carbon allows for an extremely long float life performance with a 12-year standby design life.
- Specialised Valen Front Terminal Design Includes terminal protection cover, insulated intercell links, ventilation holes for optional external venting, as well as being designed for easy installation into 19-inch racks
- FAA and IATA Approved and is safe for air transportation

AUSTRALIA
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NEW ZEALAND
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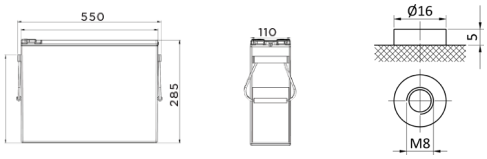
www.valen.co.nz

12EOFT155
BATTERY SPECIFICATIONS

Dimensions



Specifications

Nominals Voltage	12V
Number of Cells	6
Design life	12 years
Normal Capacity 25°	
20 Hr rate (10.5V)	167Ah
10 Hr rate (10.5V)	157Ah
5 Hr rate (10.2V)	137Ah
Dimensions	550(L) x 110(W) x 285(H)mm
Weight	49kg
Terminal	M8
Torque Setting	7Nm
Charge voltage	Cycle: 14.4V at 25°C Float: 13.62V at 25°C
Internal resistance	4.4mΩ 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	219	157	95.5	40.7	27.2	15.7	8.37

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	439	313	191	81	64.9	31.3	16.7

(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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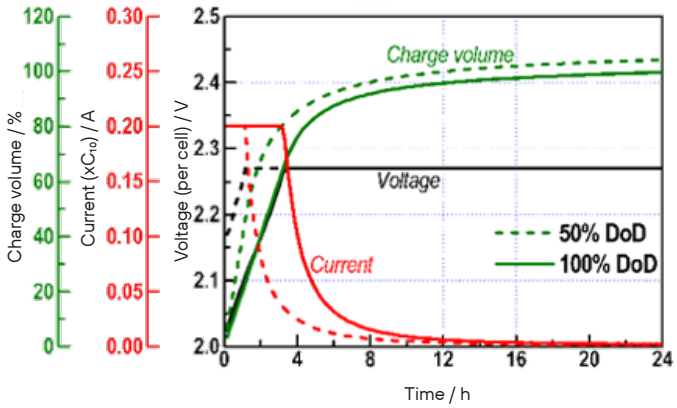
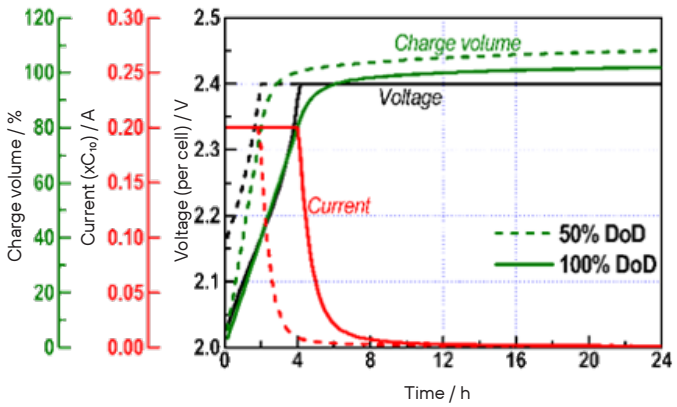
Charge Characteristics
Charge with Constant Voltage - 2.27V (per cell) at 20°C
and Limited Current - 0.20xC_{10}A



Charge Characteristics
Charge with Constant Voltage - 2.40V (per cell) at 20°C
and Limited Current - 0.20xC_{10}A



Specifcations subject to change without notice.

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PERFORMANCE CHARACTERISTICS

DISCHARGE PERFORMANCE AT CONSTANT CURRENT DISCHARGE (AH) FOR BATTERY 12MVR150 AT 20˚C

Uf, Vpc	5 min	15 min	30 min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.6	32.0	54.0	77.0	94.2	109.7	120.5	128.3	134.4	139.1	148.4	154.5	165.3
1.65	31.0	54.0	77.0	93.8	109.2	120.0	127.7	133.8	138.5	147.6	153.8	164.4
1.7	31.0	54.0	77.0	93.3	108.6	119.4	127.1	133.1	137.7	146.9	153.0	163.7
1.75	30.0	53.0	76.0	92.4	107.6	118.2	125.7	131.9	136.4	145.5	151.5	162.0
1.8	30.0	53.0	75.0	91.5	106.5	117.0	124.5	130.5	135.0	144.0	150.0	160.5
1.85	29.0	51.0	73.0	89.3	103.8	114.0	121.5	127.2	131.7	140.4	146.3	156.5

DISCHARGE PERFORMANCE AT CONSTANT CURRENT DISCHARGE (A) FOR BATTERY 12MVR150 AT 20˚C

Uf, Vpc	5 min	15 min	30 min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.6	380.0	216.0	155.0	94.2	54.8	40.2	32.1	26.9	23.2	18.5	15.5	8.3
1.65	369.0	215.0	154.0	93.8	54.6	40.0	31.9	26.8	23.1	18.5	15.4	8.2
1.7	367.0	214.0	153.0	93.3	54.3	39.8	31.8	26.6	23.0	18.4	15.3	8.2
1.75	364.0	212.0	152.0	92.4	53.8	39.4	31.4	26.4	22.7	18.2	15.2	8.1
1.8	360.0	210.0	150.0	91.5	53.3	39.0	31.1	26.1	22.5	18.0	15.0	8.0
1.85	351.0	205.0	146.0	89.3	51.9	38.0	30.4	25.4	22.0	17.6	14.6	7.8

DISCHARGE PERFORMANCE AT CONSTANT POWER DISCHARGE W (PER CELL) FOR BATTERY 12MVR150 AT 20˚C

Uf, Vpc	5 min	15 min	30 min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.6	760.0	432.0	309.0	188.4	109.7	80.3	64.1	53.8	46.4	37.1	30.9	16.5
1.65	738.0	431.0	308.0	187.5	109.2	80.0	63.8	53.5	46.1	36.9	30.8	16.4
1.7	733.0	428.0	306.0	186.6	108.6	79.2	63.5	53.2	45.9	36.7	30.6	16.4
1.75	727.0	425.0	303.0	184.8	107.6	78.4	62.9	52.7	45.5	36.2	30.3	16.2
1.8	720.0	420.0	300.0	183.0	106.5	78.0	62.3	52.2	45.0	36.0	30.0	16.1
1.85	702.0	409.0	293.0	178.5	103.8	76.0	60.8	50.9	43.9	35.1	29.3	15.7

TEMPERATURE CORRECTION FACTOR OF CAPACITY AT CONSTANT CURRENT DISCHARGE

Discharge time	-10 °C	0 °C	10 °C	15 °C	20 °C	25 °C	30 °C	35 °C	40 °C	45 °C
From 5 to 59 minutes	0.70	0.80	0.90	0.95	1.00	1.05	1.10	1.13	1.15	1.16
From 1 to 20 hours	0.82	0.88	0.94	0.97	1.00	1.03	1.05	1.07	1.08	1.10

BATTERY CHARGE CONDITIONS AT 20˚ CONSTANT VOLTAGE AND LIMITED CURRENT (IU)

Charge current limit	Float charge voltage	Equalization charge voltage	Boost charge voltage
0.1 – 0.25C10 A Recommended: 0.20C10 A	2.27 V per cell at 20 ˚C; Temperature correction:-3mV / cell / C	2.32 V per cell at 20 ˚C Recommended: every 3 months for 24h during long time float operation	2.40V per cell at 20˚C; Temperature correction:-4mV / cell / C
Float application: 0.20C10 A / 2.27 V per cell at 20 ˚C		Cycling applications: 0.20C10 A / 2.40 V per cell at 20 ˚C Recharge Ah input at least 105% from previous discharge Ah	

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