

QSR100FT

VRLA Gel Carbon Nano Battery



Performance characteristics

Nominal Voltage	12V
Design Life	15 years
Nominal Capacity 25°C (77°F)	
10 hour rate (C ₁₀ to 1.8V)	100Ah
Self-Discharge	
2% of capacity declined per month at 25°C (average)	
Operating Temperature Range	-40~55°C
Charge Methods	
Float Voltage: 2.25 to 2.27VPC @ 25°C / 77°F	
Boost Voltage: 2.35 to 2.40VPC @ 25°C / 77°F	
Temperature compensation	-5.0mV/°C/Cell
Terminal Torque	8Nm
Female Terminal	M8
Front Terminal Adapter	M8

Dimensions and weight

Length	396mm	15.59in
Width	110mm	4.33in
Height container	288mm	11.34in
Weight	35kg	77.16lb

NOTE: There is a tolerance of +/-5%.

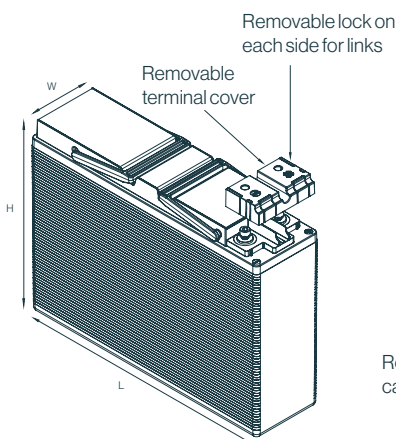
Features

Maintenance free
Exceptional cycle life (>2000 cycles, IUI charge, >1000 cycles, IU charge @ 50% DoD and 30°C)
Deep Cycle Resilient
Partial State of Charge (PSOC) compatibility
Central degassing
Ultra fast recharge
Shelf life of 2 years

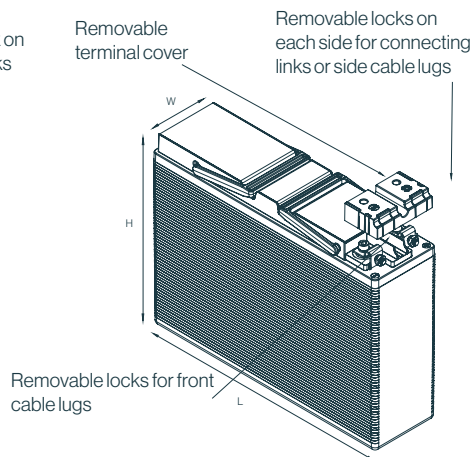
Applications

UPS Systems
Telecommunications
Emergency Lighting
Utility

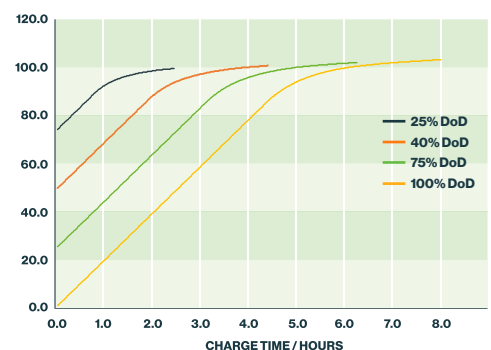
100FT with standard M8 terminal



100FT with front terminal adapter



Recharge curves 2.400PC 2x110



Discharge Tables at 25°C (77°F)

Current / Amps

EODV	5m	10m	15m	20m	30m	45m	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1,90	167.9	145.5	128.2	114.6	93.6	73.5	59.6	33.7	24.1	19.2	16.0	13.8	12.2	10.9	9.8	8.9	4.6
1,85	185.9	165.4	148.7	134.0	107.7	82.1	66.0	38.9	28.5	22.4	18.3	15.6	13.6	12.0	10.8	9.7	5.1
1,80	220.4	180.8	161.5	143.7	114.7	87.2	70.5	41.0	29.9	23.4	19.1	16.2	14.0	12.3	11.0	10.0	5.3
1,75	264.4	199.8	176.9	155.4	123.1	91.9	73.7	42.6	30.8	24.0	19.7	16.7	14.4	12.7	11.3	10.3	5.4
1,70	314.1	222.5	189.7	165.1	128.2	94.9	75.6	43.8	31.5	24.5	20.0	17.0	14.7	13.0	11.7	10.6	5.4
1,65	346.2	245.1	202.6	172.9	131.4	96.6	77.3	44.1	31.8	24.8	20.3	17.1	14.9	13.2	11.8	10.7	5.5
1,60	384.6	264.1	212.8	180.8	134.6	99.1	78.8	44.9	32.3	25.2	20.6	17.4	15.1	13.3	12.0	10.8	5.7

Capacity / Ah

EODV	5m	10m	15m	20m	30m	45m	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1,90	13.4	24.7	32.1	37.8	46.8	55.1	59.6	67.3	72.4	76.9	80.1	82.7	85.3	87.2	88.5	89.1	92.9
1,85	14.9	28.1	37.2	44.2	53.8	61.5	66.0	77.9	85.6	89.4	91.7	93.6	94.9	95.9	96.8	97.4	101.3
1,80	17.6	30.7	40.4	47.4	57.4	65.4	70.5	82.1	89.7	93.6	95.5	97.4	98.1	98.7	99.4	100.0	105.1
1,75	21.2	34.0	44.2	51.3	61.5	68.9	73.7	85.3	92.3	96.2	98.7	100.0	100.6	101.3	101.9	102.6	107.4
1,70	25.1	37.8	47.4	54.5	64.1	71.2	75.6	87.6	94.6	98.1	100.0	101.9	103.2	104.2	105.1	105.8	109.0
1,65	27.7	41.7	50.6	57.1	65.7	72.4	77.3	88.1	95.4	99.0	101.3	102.9	104.5	105.4	106.4	107.1	110.9
1,60	30.8	44.9	53.2	59.7	67.3	74.4	78.8	89.7	96.8	100.6	102.9	104.2	105.8	106.7	107.7	108.2	113.5

Power / Watt per cell

EODV	5m	10m	15m	20m	30m	45m	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1,90	323.7	285.3	234.0	209.6	169.9	134.6	115.4	68.6	50.6	40.1	34.0	28.2	23.7	20.8	19.6	18.3	7.7
1,85	346.2	317.3	262.8	230.8	185.9	144.2	121.8	73.7	55.1	43.6	35.9	29.8	25.0	22.1	20.8	19.9	9.0
1,80	387.8	336.5	294.9	262.8	203.2	157.1	131.4	79.5	57.7	46.2	37.8	31.1	26.6	23.7	22.4	21.5	9.9
1,75	458.3	362.2	328.2	291.7	232.7	176.3	142.3	84.0	61.5	48.4	39.7	32.7	28.2	25.6	24.0	23.1	10.7
1,70	538.5	381.4	341.7	304.5	241.0	181.4	145.5	85.3	62.2	48.7	40.1	33.3	28.8	26.0	24.7	23.3	10.8
1,65	576.9	423.1	353.8	310.9	243.6	185.9	147.4	85.9	62.8	49.0	40.4	33.7	29.2	26.3	24.8	23.3	10.8
1,60	634.6	461.5	365.4	317.3	248.7	187.8	148.7	86.5	63.5	49.4	40.7	34.0	29.5	26.7	24.9	23.4	10.9