

QSR170FT

VRLA Gel Carbon Nano Battery

Performance characteristics

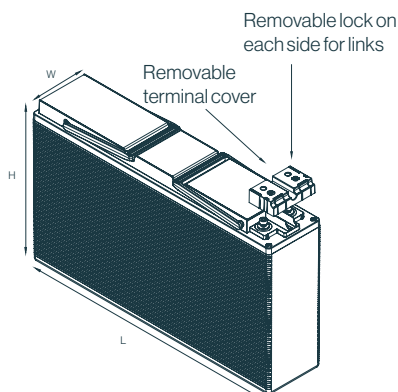
Nominal Voltage	12V
Design Life	15 years
Nominal Capacity 25°C (77°F) 10 hour rate (C ₁₀ to 1.8V)	170Ah
Self-Discharge 2% of capacity declined per month at 25°C (average)	
Operating Temperature Range	-40~55°C
Charge Methods: Float Voltage: 2.25 to 2.27VPC @ 25°C / 77°F Boost Voltage: 2.35 to 2.40VPC @ 25°C / 77°F Temperature compensation	-5.0mV/°C/Cell
Terminal Torque	8Nm
Female Terminal	M8
Front Terminal Adapter	M8

Dimensions and weight

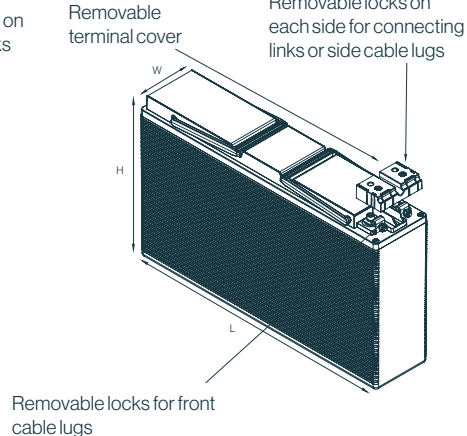
Length	560mm	22.05in
Width	125mm	4.92in
Height container	328mm	12.91in
Weight	56.5kg	124.56lb

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

170FT with standard M8 terminal



170FT with front terminal adapter



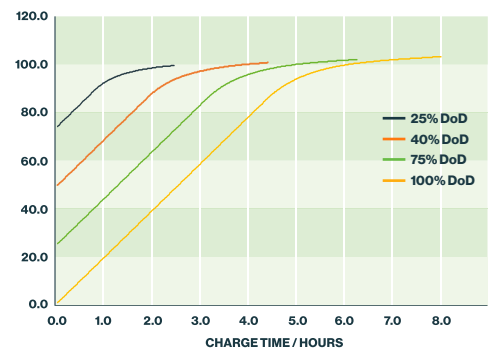
Features

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

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	285.5	247.4	217.9	194.8	159.1	125.0	101.3	57.2	41.0	32.7	27.2	23.4	20.7	18.5	16.7	15.1	7.9
1,85	316.0	281.2	252.8	227.9	183.1	139.5	112.2	66.2	48.5	38.0	31.2	26.5	23.0	20.4	18.3	16.6	8.6
1,80	374.6	307.3	274.6	244.4	195.1	148.2	119.9	69.7	50.9	39.8	32.5	27.6	23.8	21.0	18.8	17.0	8.9
1,75	449.5	339.7	300.8	264.2	209.2	156.2	125.3	72.5	52.3	40.9	33.6	28.3	24.4	21.5	19.3	17.4	9.1
1,70	534.0	378.2	322.6	280.7	217.9	161.3	128.6	74.4	53.6	41.7	34.0	28.9	25.1	22.1	19.9	18.0	9.3
1,65	588.5	416.7	344.4	293.9	223.4	164.2	131.4	74.9	54.1	42.1	34.4	29.2	25.4	22.4	20.1	18.2	9.4
1,60	653.8	449.0	361.8	307.3	228.8	168.5	134.0	76.3	54.9	42.8	35.0	29.5	25.7	22.7	20.3	18.4	9.6

Capacity / Ah

EODV	5m	10m	15m	20m	30m	45m	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1,90	22.8	42.1	54.5	64.3	79.6	93.7	101.3	114.4	123.1	130.8	136.2	140.6	144.9	148.2	150.4	151.5	158.0
1,85	25.3	47.8	63.2	75.2	91.5	104.6	112.2	132.4	145.5	152.0	155.8	159.1	161.3	163.0	164.6	165.6	172.2
1,80	30.0	52.2	68.7	80.6	97.5	111.2	119.9	139.5	152.6	159.1	162.4	165.6	166.7	167.8	168.9	170.0	178.7
1,75	36.0	57.8	75.2	87.2	104.6	117.1	125.3	144.9	156.9	163.5	167.8	170.0	171.1	172.2	173.3	174.4	182.6
1,70	42.7	64.3	80.6	92.6	109.0	121.0	128.6	148.9	160.8	166.7	170.0	173.3	175.4	177.1	178.7	179.8	185.3
1,65	47.1	70.8	86.1	97.0	111.7	123.1	131.4	149.8	162.2	168.4	172.2	174.9	177.6	179.3	180.9	182.0	188.5
1,60	52.3	76.3	90.4	101.4	114.4	126.4	134.0	152.6	164.6	171.1	174.9	177.1	179.8	181.4	183.1	183.9	192.9

Power / Watt per cell

EODV	5m	10m	15m	20m	30m	45m	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1,90	550.3	484.9	397.8	356.3	288.8	228.8	196.2	116.6	86.1	68.1	57.8	47.9	40.3	35.4	33.2	31.1	13.1
1,85	588.5	539.4	446.8	392.3	316.0	245.2	207.1	125.3	93.7	74.1	61.0	50.7	42.5	37.6	35.4	33.8	15.3
1,80	659.3	572.1	501.3	446.8	345.4	267.0	223.4	135.1	98.1	78.5	64.3	52.9	45.2	40.3	38.1	36.5	16.9
1,75	779.2	615.7	557.9	495.8	395.6	299.7	241.9	142.8	104.6	82.3	67.6	55.6	47.9	43.6	40.9	39.2	18.2
1,70	915.4	648.4	580.8	517.6	409.7	308.4	247.4	144.9	105.7	82.8	68.1	56.7	49.0	44.1	42.0	39.6	18.3
1,65	980.8	719.2	601.5	528.5	414.1	316.0	250.6	146.0	106.8	83.4	68.7	57.2	49.6	44.7	42.2	39.6	18.3
1,60	1078.8	784.6	621.2	539.4	422.8	319.3	252.8	147.1	107.9	83.9	69.2	57.8	50.1	45.3	42.4	39.8	18.5