

UPS High Rate Battery

UPS12-540WFR

Specifications

Nominal Voltage	12V
Nominal Capacity	539 Watts/cell (15 Min. rate to 1.67V/cell @ 77°F) 155Ah (20 Hr. rate to 1.80 V/cell @ 77°F)
Dimensions	Length 13.19 inches
	Width 6.77 inches
	Height (with Terminal) 10.94 inches
Weight	Approx. 93.5 lbs. (42.4 kg)
Container Material	ABS - Flame Retardant UL94
Terminal / Torque Rating	T8 / 65 in. lbs.
Preferred Operating Temp.	68-77°F
Operating Temp Range	Discharge: -15~50°C (5~122°F)
	Charge: 0~40°C (32~104°F)
	Storage: -15~40°C (32~104°F)
Internal Resistance	Approx. 3.1mOhms
Max. Discharge Current	2015A (5s)
Float Voltage	2.25 – 2.28 Vpc at 77°F
Max. Charge Current Allowed	46.5 Amps
Self Discharge	3% of capacity declined per month at 20°C (68°F). The batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.



Applications

- UPS (High rate)
- High power backup supply
- Emergency power supply
- Emergency lighting
- Electric starting



UL File No. MH19767

Constant Power Discharge (Watts/Cell) at 25°C (77°F)

F.V/Time	5 min	10 min	15 min	20 min	30 min	45 min	1 hr
1.85 V/cell	537.7	438.4	382.7	337.8	271.0	209.1	172.5
1.80 V/cell	615.4	480.8	417.8	371.3	293.0	223.3	181.3
1.75 V/cell	710.1	530.7	458.9	398.9	312.2	235.1	190.2
1.70 V/cell	785.4	577.9	499.2	430.2	332.1	246.5	197.9
1.67 V/cell	852.0	630.1	539.0	454.3	344.4	255.5	203.8
1.60 V/cell	908.9	667.5	558.6	468.8	354.4	261.2	207.5

Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5 min	10 min	15 min	20 min	30 min	45 min	1 hr
1.85 V/cell	282.7	227.9	197.5	173.4	138.3	106.0	87.0
1.80 V/cell	327.4	252.0	217.6	192.0	150.7	114.1	92.1
1.75 V/cell	381.3	281.8	241.2	207.9	161.8	121.1	97.3
1.70 V/cell	425.9	309.7	265.0	225.9	173.3	127.9	102.0
1.67 V/cell	466.9	341.3	288.5	240.4	180.8	133.3	105.6
1.60 V/cell	507.8	369.2	304.4	253.4	190.0	138.9	109.5

