

VRZ SERIES—Tubular Gel Batteries

VRZ-420 (2V420AH)

Specifications

Nominal Voltage	2V	
Nominal Capacity	420Ah (8Hr to 1.75 V/cell @ 77°F)	
Dimensions	Length	5.17 inches
	Width	8.11 inches
	Height (with Terminal)	19.9 inches
Weight	75.0 lbs.	
Container Material	ABS (V0 flame retardant case and cover optional)	
Hardware / Torque Rating	M8 / 98–130 in. lbs.	
Preferred Operating Temp.	68–77 °F	
Operating Temp Range	Discharge:	-15~50°C (5~130°F)
	Charge:	0~40°C (32~104°F)
	Storage:	-15~40°C (32~104°F)
Internal Resistance	Approx. 0.8mOhms	
Max. Discharge Current	3360 (5s)	
Float Voltage	2.25V at 77°F	
Equalize Voltage	2.35V at 77°F	
Max. Charge Current Allowed	84 Amps	
Self Discharge	The VRZ series 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

- Telecommunications
- Utility
- Solar
- Oil and gas
- Railways



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

F.V/Time	10 min	15 min	30 min	1h	2h	3h	5h	8h	10h
1.85 V/cell	338.9	312.1	255.4	193.6	129.8	100.1	68.5	47.8	40.5
1.80 V/cell	417.2	378.0	297.7	218.4	143.2	109.2	74.0	51.2	43.3
1.75 V/cell	493.3	423.3	317.2	226.6	146.3	111.2	75.3	52.1	44.0
1.70 V/cell	553.1	514.0	335.8	235.9	150.4	113.3	76.5	52.7	44.5
1.65 V/cell	594.3	488.2	349.2	242.1	153.5	115.4	77.7	53.4	44.9
1.60 V/cell	622.1	504.7	357.4	246.2	155.5	117.4	78.5	53.9	45.2

T11 Terminal

