

# VRZ SERIES—Tubular Gel Batteries

VRZ-490 (2V490AH)

## Specifications

Nominal Voltage	2V	
Nominal Capacity	490Ah (8Hr to 1.75 V/cell @ 77°F)	
Dimensions	Length	6.54 inches
	Width	8.11 inches
	Height (with Terminal)	19.9 inches
Weight	86.0 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. 0.73mOhms	
Max. Discharge Current	3920 (5s)	
Float Voltage	2.25V at 77°F	
Equalize Voltage	2.35V at 77°F	
Max. Charge Current Allowed	98 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	395.5	364.6	297.7	225.6	151.4	116.4	79.9	55.8	47.3
1.80 V/cell	486.2	441.9	347.1	254.4	166.9	126.7	86.2	59.7	50.5
1.75 V/cell	575.8	494.4	369.8	264.7	171.0	129.8	87.9	60.8	51.3
1.70 V/cell	645.8	538.7	391.4	275.0	175.1	132.9	89.3	61.6	51.8
1.65 V/cell	693.2	569.6	406.9	282.2	179.2	134.9	90.6	62.3	52.4
1.60 V/cell	725.1	589.2	417.2	287.4	181.3	137.0	91.6	62.8	52.7

## T11 Terminal

