

## ■ VRLA (Valve Regulated Lead Acid Battery) VGS 490 (2V, 490AH/10hr)

### ► Applications

- UPS System
- Communication Equipments
- URenewable Energy(Solar & Wind power)
- Medical Equipments
- Computer Back-up Power
- Security & Alarm Systems
- Power Plants
- Railroad Traffic Signals
- FA Systems

### ► Technical Features

#### Service Life

GLOBAL OPzV cells are designed for  $\geq 20$  years service life (at an ambient temperature of 20°C with 80% residual capacity) and affords high cyclic stability.

#### Installation

Use in vertical or horizontal position from 200 Ah up to 1500 Ah cells.

#### Safety

The battery is designed with a three-layer closed structure to eliminate electrolyte leakage. It also has an internal flameproof enclosure to prevent explosions due to temporary overcharging.

#### Deep Discharge Protection

GLOBAL OPzV batteries have excellent deep discharge recovery. The batteries can be recharged to 95% capacity in 12 hours, even following 30 days connected to a load in the discharged state.

#### Low Self-discharge

The rate of self-discharge by the OPzV batteries is extremely low by comparison to normal lead batteries.

Very low gassing due to the internal gas recombination

### ► Specifications

Nominal Capacity (AH)	· 490	
Nominal Voltage (V)	· 2	
Dimensions (L*W*H*TH) (mm)	· 166*206*471*511	
Weight (kg)	· 42.0	
Design life (at 20°C)	· $\geq 20$ years	
Internal Resistance (mΩ)	· 0.45	
Self Discharge (at 20°C)	· 2.0% / Month	
Operational Temperature range	Storage	· -15~40 °C
	Discharge	· -15~45 °C
	charge	· 0~40 °C
Charge voltage (at 25°C)	· 2.22V	



### ► Discharge Table in Amperes

Final Voltage	15min	30min	1h	2h	3h	4h	5h	8h	10h	100h
1.85V / Cell	257	228	180	131	104	91	77	57	47	5.6
1.80V / Cell	327	275	221	151	119	100	84	59	49	5.8
1.67V / Cell	471	377	265	171	126	103	87	62	53	6.1

