

■ VRLA (Valve Regulated Lead Acid Battery) VGS 420 (2V, 420AH/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 ≥ 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)	· 420	
Nominal Voltage (V)	· 2	
Dimensions (L*W*H*TH) (mm)	· 145*206*471*511	
Weight (kg)	· 37.0	
Design life (at 20 °C)	· ≥ 20 years	
Internal Resistance (m Ω)	· 0.5	
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	244	208	161	115	92	79	67	48	40	4.8
1.80V / Cell	307	254	192	138	104	88	74	54	42	5.0
1.67V / Cell	436	339	232	152	111	91	77	56	46	5.2

