INFINITE POWER

Mission Critical Applications

VALVE REGULATED LEAD ACID BATTERIES

All Battery Range

- General Series
- Duration Series
- Deep Cycle Series
- High Rate Series
- FA Series
- FAG Series
- EPX Series
- EPG Series
- OPzV Series
- OPzS Series
Mission Critical Applications

Deep Cycle VRLA Battery
Valve Regulated Lead Acid Battery

Applications
- Telecommunications with unreliable power sources
- Renewable energy system
- Golf trolley and electric vehicles

All Battery Range
- General Series
- Duration Series
- Deep Cycle Series
- High Rate Series
- FA Series
- FAG Series
- EPX Series
- EPG Series
- OPzV Series
- OPzS Series
RANGE SUMMARY
By combining up-to-date DCP additives in the positive plates and special AGM separators, Sensys created an innovative range of DC batteries. This range features 70% higher cyclic life with 12 years of float life when compared with the standard Duration range. This series is highly suited to very unreliable power applications requiring the batteries to provide extra cyclic life performance such as outdoor applications, small RE systems and electric vehicles.

FEATURES AND BENEFITS
- 70% more cyclic life through innovation at the PAM additives
- Long life expectancy of 12 years at floating condition @ 20°C
- Thick flat plate with high Tin low Calcium alloy
- Wide operating temperature range from -15°C to 60°C
- Low self-discharge rate and long shelf life (1 year at 25°C)
- Excellent deep discharge recovery capability

CONSTRUCTION
- Positive plate - Thick high Sn low Ca grid with special paste
- Negative plate - Balanced Pb-Ca grid for improved recombination efficiency
- Separator - Advanced AGM separator for high pressure cell design
- Electrolyte - Dilute high purity sulphuric acid
- Battery container and cover - ABS
- Pillar seal - 100% factory tested, proven two layers epoxy resin seal
- Relief valve - Complete with integrated flame arrester

CHARGING VOLTAGE AND SETTING
- Constant voltage charging is recommended
- Recommended float charge voltage: 2.27Vpc @ 20°C
- Float voltage temperature compensation: -3mV/°C/cell
- Float voltage range: 2.25 to 2.30 Vpc @ 20°C
- Cyclic application charge voltage: 2.40Vpc @ 20°C
- Max charge current allowable: 0.25C max
## DC Series Valve Regulated Lead Acid Battery

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Specifications subject to change without notice
Mission Critical Applications

**ED Series**

Flexible Rack / Tower application
On-Line “Double Conversion” technology
1 phase in  /  out 5 kVA / 10 kVA
3 phase in  / 1 phase out 10 kVA
10 up to 300 kVA three phase in/out

RT Sys pro 201
Professional Series

Mission Critical Servers, Telecommunications, Internet servers, Network Components, Local Area Networks, VOIP, Process & Telecom Equipment...

**AGM Long Life Battery**
Valve Regulated Lead Acid Battery

**Applications**
- UPS
- Electric Power Distribution System
- CATV and FTTX Cabinet
- Telecommunication

**All Battery Range**
- General Series
- Duration Series
- Deep Cycle Series
- High Rate Series
- FA Series
- FAG Series
- EPX Series
- EPG Series
- OPzV Series
- OPzS Series

**SENSYS**
RANGE SUMMARY
By combining a newly developed corrosion resistance alloy and advanced curing process, Sensys created a range of long life batteries - Duration range. The range features top terminal and offers 12 years design life. This series is highly suited to UPS system, switchgear, CATV and telecommunication system applications.

FEATURES AND BENEFITS
- 12 years design life at floating condition @ 20°C
- Wide operating temperature range from -15°C to 60°C
- Thick flat plate featuring high Tin low Calcium alloy
- Operation in any position without acid leakage
- Balanced design for both floating and cyclic operation
- Low self-discharge rate and long shelf life
- Excellent deep discharge recovery capability

CONSTRUCTION
- Positive plate - High Sn low Ca grid to resist corrosion and prolong life
- Negative plate - Balanced Pb-Ca grid for improved recombination efficiency
- Separator - Advanced AGM separator for ultra low float current
- Electrolyte - Dilute high purity sulphuric acid
- Battery container and cover - ABS
- Pillar seal - 100% factory tested, proven two layers epoxy resin seal
- Relief valve - Complete with integrated flame arrestor

CHARGING VOLTAGE AND SETTING
- Constant voltage charging is recommended
- Recommended float charge voltage: 2.27Vpc @ 20°C
- Float voltage temperature compensation: -3mV/°C/cell
- Float voltage range: 2.25 to 2.30 Vpc @ 20°C
- Cyclic application charge voltage: 2.40Vpc @ 20°C
- Max charge current allowable: 0.25C10A
## General Specifications

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For more information, please visit our website: [www.evouqepower.com](http://www.evouqepower.com) or send an email to [enquiry@evouqepower.com](mailto:enquiry@evouqepower.com)

Data showed in charts may vary for each model, contact EVOQUE POWER for specific technical data.

Specifications subject to change without notice.
INFINITE POWER

Mission Critical Applications

AGM GENERAL BATTERY

VALVE REGULATED LEAD ACID BATTERY

APPLICATIONS

- Security Alarm System
- Small size UPS
- Emergency light System

All Battery Range
- General Series
- Duration Series
- Deep Cycle Series
- High Rate Series
- FA Series
- FAG Series
- EPX Series
- EPG Series
- OPzV Series
- OPzS Series
EP series

valve regulated lead acid battery

RANGE SUMMARY
EP Range offers a fully maintenance free 5 years design life. The series is highly suited to security alarm systems, UPS systems, emergency light systems and other backup applications.

FEATURES AND BENEFITS
- 5 years design life at floating condition
- Wide operating temperature range from -15°C to 60°C
- Can be used at vertical or horizontal orientation
- Balanced design for both floating and cyclic operation
- Low self-discharge rate and long shelf life

CONSTRUCTION
- Positive plate - Standard Pb-Ca-Sn alloy
- Negative plate - Balanced Pb-Ca grid for improved recombination efficiency
- Separator - AGM separator
- Electrolyte - Dilute high purity sulphuric acid
- Battery container and cover - ABS
- Pillar seal - 100% factory tested, proven two layers epoxy resin seal
- Relief valve - Self sealing rubber cap valve with proven reliability

CHARGING VOLTAGE AND SETTING
- Constant voltage charging is recommended
- Recommended float charge voltage:
  2.27Vpc @ 25°C
- Float voltage temperature compensation:
  -3mV/°C/cell
- Float voltage range:
  2.25 to 2.30 Vpc @ 25°C
- Cyclic application charge voltage :
  2.40Vpc @ 25°C
- Max charge current allowable : 0.3C10A
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Capacity Range: 0.5Ah~35Ah

Specifications subject to change without notice
INFINITE POWER

Mission Critical Applications

2V HYBRID GEL BATTERY

VALVE REGULATED LEAD ACID BATTERY

APPLICATIONS

- Telecommunications
- UPS
- Data Center
- Solar and wind energy system
- Power Utility

All Battery Range

- General Series
- Duration Series
- Deep Cycle Series
- High Rate Series
- FA Series
- FAG Series
- EPX Series
- EPG Series
- OPzV Series
- OPzS Series

SENSYS
By combining the newly developed nano gel electrolyte with up-to-date AGM structures, Sensys created the innovative EPG range of batteries. The range offers 20 years design life with very high deep cycling capability. This range is highly suited to telecom outdoor application, renewable energy system and other harsh environment applications.

### FEATURES AND BENEFITS
- 20 years design life at floating condition @ 20°C
- Wide operating temperature range from -15°C to 60°C
- Nano gel electrolyte eliminate the acid stratification and prolong cycle life
- Can be used at vertical or horizontal orientation
- Float current decreased 30% lead to excellent high temperature resistance
- Thick flat plate with high Tin low Calcium alloy
- Low self-discharge rate and long shelf life (1 year at 25°C)
- Excellent deep discharge recovery capability

### CONSTRUCTION
- Positive plate - Thick high Sn low Ca grid minimize corrosion and prolong life
- Negative plate - Balanced Pb-Ca grid for improved recombination efficiency
- Separator - Advanced AGM separator for ultra low float current
- Electrolyte - Dilute high purity sulphuric acid with nano gel
- Battery container and cover - ABS
- Pillar seal - 100% factory tested, proven two layers epoxy resin seal
- Relief valve - Complete with integrated flame arrestor

### CHARGING VOLTAGE AND SETTING
- Constant voltage charging is recommended
- Recommended float charge voltage: 2.27Vpc @ 20°C
- Float voltage temperature compensation: -3mV/°C/cell
- Float voltage range: 2.25 to 2.29 Vpc @ 20°C
- Cyclic application charge voltage: 2.35 to 2.40Vpc @ 20°C
- Max charge current allowable: 0.25CmA
## General Specifications

### EPG Series

**Valve Regulated Lead Acid Battery**

**Capacity Range:** 100Ah-3000Ah

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**Charge Characteristic**

- **Charge Capacity (%)**
- **Charge Current (CA)**
- **Charge Voltage (V/Cell)**

**Discharge Characteristic (20°C)**

- **Discharge Voltage (V/Cell)**
- **Time (hour)**

**Relationship of OCV and state of charge**

- **Battery Voltage (V/Cell)**
- **Remained Capacity (%)**

**Self Discharge Characteristics**

- **Capacity (%)**
- **Storage time: months**

Specifications subject to change without notice.
Mission Critical Applications

2V AGM BATTERY
VALVE REGULATED LEAD ACID BATTERY

APPLICATIONS
- Telecommunications
- UPS
- Data Center
- Solar and wind energy system
- Power Utility

All Battery Range
- General Series
- Duration Series
- Deep Cycle Series
- High Rate Series
- FA Series
- FAG Series
- EPX Series
- EPG Series
- OPzV Series
- OPzS Series
RANGE SUMMARY
By combining the service life reliability of a flooded battery with the performance energy density of a valve-regulated battery, Sensys created a true long service life VRLA battery - the EPX range. This range offers 20 years design life with very good cycling capability, and it is highly suited to telecom, UPS, renewable energy system, power station and similar applications.

FEATURES AND BENEFITS
- 20 years design life at floating condition @ 20°C
- Wide operating temperature range from -15°C to 60°C
- High integrity, dual pillar seal design
- Low float current designed paste enables significant electrical cost saving
- Thick positive flat plate design with high Tin low Calcium alloy
- Low self-discharge rate and long shelf life (1 year at 25°C)
- High gas recombination efficiency as high as 99.9%

CONSTRUCTION
- Positive plate - thick high Sn low Ca grid to resist corrosion and prolong life
- Negative plate - Balanced Pb-Ca grid for improved recombination efficiency
- Separator - Advanced AGM separator for ultra low float current
- Electrolyte - Dilute high purity sulphuric acid
- Battery container and cover - ABS
- Pillar seal - 100% factory tested, proven two layers epoxy resin seal
- Relief valve - Complete with integrated flame arrester

CHARGING VOLTAGE AND SETTING
- Constant voltage charging is recommended
- Recommended float charge voltage: 2.27Vpc @ 20°C
- Float voltage temperature compensation: -3mV/°C/cell
- Float voltage range: 2.25 to 2.29 Vpc @ 20°C
- Cyclic application charge voltage: 2.35 to 2.40Vpc @ 20°C
- Max charge current allowable: 0.25CtenA
## General Specifications

### EPX Series

**Valve Regulated Lead Acid Battery**

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### Relationship of OCV and state of charge

![Graph showing relationship between OCV and state of charge](image1)

### Charge Characteristic

![Graph showing charge characteristic](image2)

### Discharge Characteristic (20°C)

![Graph showing discharge characteristic](image3)

### Self Discharge Characteristics

![Graph showing self discharge characteristics](image4)

Specifications subject to change without notice
Mission Critical Applications

INFINITE POWER

AGM FRONT ACCESS BATTERY
VALVE REGULATED LEAD ACID BATTERY

APPLICATIONS
- Telecommunications
- Power Utility
- UPS
- Signal system

All Battery Range
- General Series
- Duration Series
- Deep Cycle Series
- High Rate Series
- FA Series
- FAG Series
- EPX Series
- EPG Series
- OPzV Series
- OPzS Series

SENSYS
RANGE SUMMARY

By combining the newly developed paste formula with up-to-date AGM structures, Sensys created the innovation FA range of batteries. This range features 12 years design life and front access connection for fast, easy installation and maintenance. This series is highly suited to telecom applications, UPS systems and other back up applications.

FEATURES AND BENEFITS

- 12 years design life at floating condition @ 20°C
- Wide operating temperature range from -15°C to 60°C
- Advanced paste formula with increased recharge efficiency
- Front access terminal with standard width for 19” and 23” ETSI racks
- 30% decreased float current lead to excellent high temperature resistance
- Thick flat plate with high Tin low Calcium alloy
- Low self-discharge rate and long shelf life (1 year at 25°C)
- Excellent deep discharge recovery capability

CONSTRUCTION

- Positive plate - Thick high Sn low Ca grid minimize corrosion and prolong life
- Negative plate - Balanced Pb-Ca grid for improved recombination efficiency
- Separator - Advanced AGM separator for ultra low float current
- Electrolyte - Dilute high purity sulphuric acid
- Battery container and cover - ABS
- Pillar seal - 100% factory tested, proven two layers epoxy resin seal
- Relief valve - Complete with integrated flame arrester

CHARGING VOLTAGE AND SETTING

- Constant voltage charging is recommended
- Recommended float charge voltage: 2.27Vpc @ 20°C
- Float voltage temperature compensation: -3mV/°C/cell
- Float voltage range: 2.25 to 2.29 Vpc @ 20°C
- Cyclic application charge voltage: 2.35 to 2.40Vpc @ 20°C
- Max charge current allowable: 0.25CmA
**Valve Regulated Lead Acid Battery**

### General Specifications

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<th>Code No.</th>
<th>Voltage (V)</th>
<th>Capacity (AH)</th>
<th>Length (mm)</th>
<th>Width (in)</th>
<th>Height (mm)</th>
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**Data showed in charts may vary for each model**

**Specifications subject to change without notice**
Mission Critical Applications

FAG Series

Flexible Rack / Tower application
On-Line “Double Conversion” technology
1 phase in / out 5 kVA / 10 kVA
3 phase in / 1 phase out 10 kVA
10 up to 300 kVA three phase in/out

RT Sys pro 201
Professional Series

Mission Critical Servers, Telecommunications,
Internet servers, Network Components,
Local Area Networks, VOIP,
Process & Telecom Equipment...

12 V Hybrid Gel Front Access
Valve Regulated Lead Acid Battery

All Battery Range
- General Series
- Duration Series
- Deep Cycle Series
- High Rate Series
- FA Series
- FAG Series
- EPX Series
- EPG Series
- OPzV Series
- OPzS Series

Applications
Outdoor Applications •
Telecommunications •
Renewable Energy system •
Power Utility •

SENSYS
RANGE SUMMARY
By combining the newly developed nano gel electrolyte with up-to-date AGM structures, Sensys created the innovation FAG range of batteries. The range features 15 years design life and front access connections for fast, easy installation and maintenance. This range battery is highly suited to telecom outdoor applications, renewable energy systems and other harsh environment applications.

FEATURES AND BENEFITS
- 15 years design life at floating condition @ 20°C
- Wide operating temperature range from -15°C to 60°C
- Nano gel electrolyte eliminate the acid stratification and prolong cycle life
- Front access terminal with standard width for 19” and 23” ETSI racks
- 30% decreased float current lead to excellent high temperature resistance
- Thick flat plate with high Tin low Calcium alloy
- Low self-discharge rate and long shelf life (1 year at 25°C)
- Excellent deep discharge recovery capability

CONSTRUCTION
- Positive plate - Thick high Sn low Ca grid minimize corrosion and prolong life
- Negative plate - Balanced Pb-Ca grid for improved recombination efficiency
- Separator - Advanced AGM separator for ultra low float current
- Electrolyte - Dilute high purity sulphuric acid with nano gel
- Battery container and cover - ABS
- Pillar seal - 100% factory tested, proven two layers epoxy resin seal
- Relief valve - Complete with integrated flame arrestor

CHARGING VOLTAGE AND SETTING
- Constant voltage charging is recommended
- Recommended float charge voltage: 2.27Vpc @ 20°C
- Float voltage temperature compensation: -3mV/°C/cell
- Float voltage range: 2.25 to 2.29 Vpc @ 20°C
- Cyclic application charge voltage: 2.35 to 2.40Vpc @ 20°C
- Max charge current allowable: 0.25C currents
FAG SERIES

Capacity Range: 50Ah-180Ah

Valve Regulated Lead Acid Battery

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### General Specifications

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For more information, please visit our website: [www.evoguelpower.com](http://www.evoguelpower.com) or send an email to enquiry@evoguelpower.com

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Data showed in charts may vary for each model

Specifications subject to change without notice
Mission Critical Applications

INFINITE POWER

HR SERIES

Flexible Rack / Tower application
On-Line “Double Conversion” technology
1 phase in / out 5 kVA / 10 kVA
3 phase in / 1 phase out 10 kVA

AGM high rate battery
Valve regulated lead acid battery

APPLICATIONS

All Battery Range
- General Series
- Duration Series
- Deep Cycle Series
- High Rate Series
- FA Series
- FAG Series
- EPX Series
- EPG Series
- OPzV Series
- OPzS Series

UPS System •
Power switch gears •
Engine starting •
Data centers •

SENSYS
VALVE REGULATED LEAD ACID BATTERY

RANGE SUMMARY
By combining proprietary high rate plate design with low internal resistance AGM separators, Sensys created the innovative High Rate range of batteries. This range offers extremely high power output at 15 minutes backup time with 12 years design life and is highly suited to high rate UPS and power switchgear applications.

FEATURES AND BENEFITS
- 30% increased Power output at 15 minutes backup time
- 12 years design life at floating condition @ 20°C
- Optimized plate achieve low internal resistance
- Wide operating temperature range from -15°C to 60°C
- Low self-discharge rate and long shelf life(1 year at 25°C)
- Excellent deep discharge recovery capability

CONSTRUCTION
- Positive plate - Special designed grid with Pb-Ca-Sn alloy
- Negative plate - Balanced Pb-Ca grid for improved recombination efficiency
- Separator - Low internal resistance AGM separator
- Electrolyte - Dilute high purity sulphuric acid
- Battery container and cover - ABS
- Pillar seal - 100% factory tested, proven two layers epoxy resin seal
- Relief valve - Complete with integrated flame arrestor

CHARGING VOLTAGE AND SETTING
- Constant voltage charging is recommended
- Recommended float charge voltage:
  2.27Vpc @ 20°C
- Float voltage temperature compensation:
  -3mV/°C/cell
- Float voltage range:
  2.25 to 2.30 Vpc @ 20°C
- Cyclic application charge voltage:
  2.40Vpc @ 20°C
- Max charge current allowable: 0.25C mA
**General Specifications**

**HR Series**

**Valve Regulated Lead Acid Battery**

**Capacity Range:** 21-500W/Cell

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**Charge Characteristics**

**Self Discharge Characteristics**

Specifications subject to change without notice
Mission Critical Applications

INFINITE POWER

OPZS SERIES

2V TUBULAR FLOODED BATTERY
VALVE REGULATED LEAD ACID BATTERY

APPLICATIONS

- Telecommunications
- UPS
- Data Center
- Solar and wind energy system
- Power Utility

All Battery Range
- General Series
- Duration Series
- Deep Cycle Series
- High Rate Series
- FA Series
- FAG Series
- EPX Series
- EPG Series
- OPzV Series
- OPzS Series

SENSYS
RANGE SUMMARY

The OPzS battery is a traditional tubular plate flooded battery which offers 20 years design life according to IEC60896-11. This range is most suited for all standby power applications that require the highest levels of reliability and security.

FEATURES AND BENEFITS

- 20 years design life at floating condition @ 20°C
- Tubular positive plate with prolonged cycle life
- High operational reliability
- Lead calcium die cast grid with improved corrosion resistance capability
- Dry charged package and delivery ensure longer shelf life
- Explosive-proof with special designed vented plug

CONSTRUCTION

- Positive plate - Tubular plate with die cast Pb-Ca alloy grid
- Negative plate - Balanced Pb-Ca grid for improved recombination efficiency
- Separator - leaf shape rubber separator
- Electrolyte - Dilute high purity sulphuric acid of 1.240 specific gravity
- Battery container - SAN
- Battery cover - ABS
- Pillar seal - 100% factory tested, proven two layers epoxy resin seal
- Relief valve - Complete with integrated flame arrester

CHARGING VOLTAGE AND SETTING

- Constant voltage charging is recommended
- Recommended float charge voltage: 2.23Vpc @ 20°C
- Float voltage temperature compensation: -3mV/°C/cell
- Float voltage range: 2.21 to 2.25 Vpc @ 20°C
- Cyclic application charge voltage : 2.35 to 2.40Vpc @ 20°C
- Max charge current allowable : 0.20C•A
## General Specifications

**OPzS Series Valve Regulated Lead Acid Battery**

**Capacity Range:** 100Ah-3000Ah

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### Charge Characteristic

- **Constant Charge At 0.25CA-2.30V (20 °C)**
- **5% Discharge**

### Discharge Characteristic (20°C)

- **2CA**
- **1CA**
- **0.6CA**
- **0.25CA**
- **0.1CA**
- **0.05CA**

### Relationship of OCV and state of charge

### Self Discharge Characteristics

Specifications subject to change without notice
Mission Critical Applications

INFINITE POWER

APPLICATIONS
- Telecommunications
- UPS
- Data Center
- Solar and wind energy system
- Power Utility

All Battery Range
- General Series
- Duration Series
- Deep Cycle Series
- High Rate Series
- FA Series
- FAG Series
- EPX Series
- EPG Series
- OPzV Series
- OPzS Series

2V TUBULAR GEL BATTERY

OPZV SERIES

VALVE REGULATED LEAD ACID BATTERY
RANGE SUMMARY

By combining the newly developed tubular positive plates with fumed gelled electrolyte, Sensys created the innovative OPzV range of batteries. The range offers 20 years design life and very high deep cycling capabilities. This range is recommended for telecom outdoor applications, renewable energy systems and other harsh environment applications.

FEATURES AND BENEFITS

- 20 years design life at floating condition @ 20°C
- Wide operating temperature range from -15°C to 60°C
- Tubular positive plate with prolonged cycle life
- Fumed Silica gel electrolyte
- Lead Calcium die cast grid with improved corrosion resistance capability
- Low self-discharge rate and long shelf life (1 year at 25°C)
- Excellent deep discharge recovery capability

CONSTRUCTION

- Positive plate - Tubular plate with die cast Pb-Ca alloy grid
- Negative plate - Balanced Pb-Ca grid for improved recombination efficiency
- Separator - leaf shape polymer separator
- Electrolyte - Dilute high purity sulphuric acid with fumed Silica gel
- Battery container and cover - ABS
- Pillar seal - 100% factory tested, proven two layers epoxy resin seal
- Relief valve - Complete with integrated flame arrestor

CHARGING VOLTAGE AND SETTING

- Constant voltage charging is recommended
- Recommended float charge voltage: 2.27Vpc @ 20°C
- Float voltage temperature compensation: -3mV/°C/cell
- Float voltage range: 2.25 to 2.29 Vpc @ 20°C
- Cyclic application charge voltage: 2.35 to 2.40Vpc @ 20°C
- Max charge current allowable: 0.20C10

Electrolyte - Dilute high purity sulphuric acid
Battery container and cover - ABS
Pillar seal - 100% factory tested, proven two layers epoxy resin seal
Relief valve - Complete with integrated flame arrestor

Tubular positive plate with prolonged cycle life
Fumed Silica gel electrolyte
Lead Calcium die cast grid with improved corrosion resistance capability
Low self-discharge rate and long shelf life (1 year at 25°C)
Excellent deep discharge recovery capability

By combining the newly developed tubular positive plates with fumed gelled electrolyte, Sensys created the innovative OPzV range of batteries. The range offers 20 years design life and very high deep cycling capabilities. This range is recommended for telecom outdoor applications, renewable energy systems and other harsh environment applications.
## General Specifications

### OPzV Series

**Valve Regulated Lead Acid Battery**

### Capacity Range: 200Ah-3000Ah

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### Charge Characteristic

![Charge Characteristic](image1.png)

### Discharge Characteristic (20°C)

![Discharge Characteristic](image2.png)

### Relationship of OCV and state of charge

![Relationship of OCV and state of charge](image3.png)

### Self Discharge Characteristics

![Self Discharge Characteristics](image4.png)

Specifications subject to change without notice