



# Valve Regulated Lead Acid (VRLA) battery with Gel electrolyte technology

## Solar Battery Sub System

A range of 65 Ah to 250 Ah 12/24V, valve regulated lead acid (VRLA) battery with gel electrolyte technology to get long service lifetime and high performance in deep discharging. It can be used in wide range of ambient temperature and keep good performance of constant power input

### Benefits

- Gel electrolyte, 12 years lifespan in float service application.
- Excellent capacity restoration, 95% capacity recovery after short circuit in 24 hours.
- Low self-discharge rate, less than 3% per month
- Wide application temperature range, -20C~55C
- High charge efficiency, good small current charge absorption ability
- Water-proof, patented design, that enable underground battery installation
- Ventilation pipe, release the gas from battery to the air for safe CE certified operation

### Features

- IP 68 Patented Design for installing underground
- IP 67 Poka Yoke connectors with tactile audible feedback
- Temperature sensor for efficient compensation implementation in Charge controller.

Solar Battery Sub System

Application

- Solar Street lighting
- Solar Flood Lighting

Versions



Lithium Ferro Phosphate battery



Lithium Ferro Phosphate battery

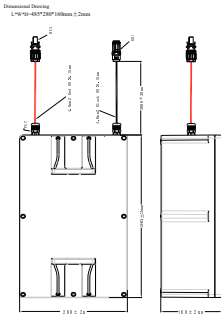
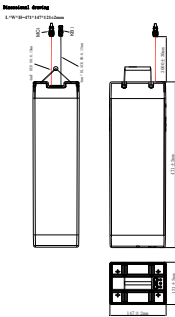


Lithium Ferro Phosphate battery

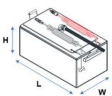


Lithium Ferro Phosphate battery

Dimensional drawing

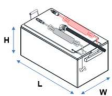


12V Gel Battery Subsystem



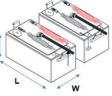
Description	Battery Size (cm) LxWxH
MS0321 12V/65Ah IP68 gel battery subunit	35x161 6x23 5
MS0321 12V/80Ah IP68 gel battery subunit	32 1617 2x27 3
MS0321 12V/100Ah IP68 gel battery subunit	32 1617 2x27 3
MS0321 12V/120Ah IP68 gel battery subunit	40 1617 4x26 6
MS0321 12V/150Ah IP68 gel battery subunit	48x1700
MS0321 12V/180Ah IP68 gel battery subunit	52 2x23 16x21 8
MS0321 12V/200Ah IP68 gel battery subunit	52 2x23 16x21 8
MS0321 12V/250Ah IP68 gel battery subunit	52 2x23 16x21 8
MS0321 12V/300Ah IP68 gel battery subunit	52 2x23 16x21 8

12V Gel Battery Subsystem



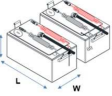
Description	Battery Size (cm) LxWxH
MS0321 12V/65Ah IP68 gel battery subunit	35x161 6x23 5
MS0321 12V/80Ah IP68 gel battery subunit	32 1617 2x27 3
MS0321 12V/100Ah IP68 gel battery subunit	32 1617 2x27 3
MS0321 12V/120Ah IP68 gel battery subunit	40 1617 4x26 6
MS0321 12V/150Ah IP68 gel battery subunit	48x1700
MS0321 12V/180Ah IP68 gel battery subunit	52 2x23 16x21 8
MS0321 12V/200Ah IP68 gel battery subunit	52 2x23 16x21 8
MS0321 12V/250Ah IP68 gel battery subunit	52 2x23 16x21 8
MS0321 12V/300Ah IP68 gel battery subunit	52 2x23 16x21 8

24V Gel Battery Subsystem



Description	Battery Size (cm) LxWxH
MS0322 24V/135Ah IP68 Gel Bat Tern Tern24	35x161 6x23 5
MS0322 24V/160Ah IP68 Gel Bat Tern Tern24	32 1617 2x27 3
MS0322 24V/200Ah IP68 Gel Bat Tern Tern24	32 1617 2x27 3
MS0322 24V/250Ah IP68 Gel Bat Tern Tern24	40 1617 4x26 6
MS0322 24V/300Ah IP68 Gel Bat Tern Tern24	48x1700
MS0322 24V/350Ah IP68 Gel Bat Tern Tern24	52 2x23 16x21 8
MS0322 24V/400Ah IP68 Gel Bat Tern Tern24	52 2x23 16x21 8
MS0322 24V/450Ah IP68 Gel Bat Tern Tern24	52 2x23 16x21 8
MS0322 24V/500Ah IP68 Gel Bat Tern Tern24	52 2x23 16x21 8

24V Gel Battery Subsystem



Description	Battery Size (cm) LxWxH
MS0322 24V/135Ah IP68 Gel Bat Tern Tern24	35x161 6x23 5
MS0322 24V/160Ah IP68 Gel Bat Tern Tern24	32 1617 2x27 3
MS0322 24V/200Ah IP68 Gel Bat Tern Tern24	32 1617 2x27 3
MS0322 24V/250Ah IP68 Gel Bat Tern Tern24	40 1617 4x26 6
MS0322 24V/300Ah IP68 Gel Bat Tern Tern24	48x1700
MS0322 24V/350Ah IP68 Gel Bat Tern Tern24	52 2x23 16x21 8
MS0322 24V/400Ah IP68 Gel Bat Tern Tern24	52 2x23 16x21 8
MS0322 24V/450Ah IP68 Gel Bat Tern Tern24	52 2x23 16x21 8
MS0322 24V/500Ah IP68 Gel Bat Tern Tern24	52 2x23 16x21 8

Operating and Electrical	
Cable connection kit	Included
Approval and Application	
Ingress protection code	IP68

Operating and Electrical

Solar Battery Sub System

Order Code	Full Product	Battery	Battery	Battery type	Battery
	Name	ampere hour	charging & discharging cycles		
50767800	ZJS601 80AH 12.8V Battery	80 Ah	2000	Lithium Ferro Phosphate	12.8 V
50772200	ZJS601 120AH 25.6V Battery	120 Ah	2000	Lithium Ferro Phosphate	25.6 V
50765400	ZJS601 50AH 12.8V Battery	50 Ah	2000	Lithium Ferro Phosphate	12.8 V
50738800	ZJS601 100AH 25.6V Battery	100 Ah	2000	Lithium Ferro Phosphate	25.6 V
01816902	XGS321 12V/65AH IP68 Gel Bat sys 5yrs	65 Ah	750	Gel	12 V

Temperature

Order Code	Full Product Name	Ambient temperature range
50767800	ZJS601 80AH 12.8V Battery	0 to +60 °C
50772200	ZJS601 120AH 25.6V Battery	0 to +60 °C
50765400	ZJS601 50AH 12.8V Battery	0 to +60 °C
50738800	ZJS601 100AH 25.6V Battery	0 to +60 °C

Mechanical and Housing

Order Code	Full Product Name	Overall height	Overall length	Overall width
50767800	ZJS601 80AH 12.8V Battery	471 mm	147 mm	121 mm
50772200	ZJS601 120AH 25.6V Battery	160 mm	280 mm	485 mm
50765400	ZJS601 50AH 12.8V Battery	471 mm	147 mm	121 mm
50738800	ZJS601 100AH 25.6V Battery	160 mm	280 mm	485 mm
01816902	XGS321 12V/65AH IP68 Gel Bat sys 5yrs	235 mm	350 mm	166 mm

Application Conditions

Order Code	Full Product Name	Ambient temperature range for charging	Ambient temperature range for discharging (when light is on)
50767800	ZJS601 80AH 12.8V Battery	0 °C to +60 °C	-20 °C to +60 °C
50772200	ZJS601 120AH 25.6V Battery	0 °C to +60 °C	-20 °C to +60 °C
50765400	ZJS601 50AH 12.8V Battery	0 °C to +60 °C	-20 °C to +60 °C
50738800	ZJS601 100AH 25.6V Battery	0 °C to +60 °C	-20 °C to +60 °C
01816902	XGS321 12V/65AH IP68 Gel Bat sys 5yrs	-20 °C to +55 °C	-20 °C to +55 °C

Order Code	Full Product Name	Battery ampere hour	Battery charging & discharging		Battery voltage
				Battery type	
01818002	XGS322 12V/ 100AH IP68 Gel Bat 5yrs For24	100 Ah	750	Gel	24 V
72903200	XGS321 12V/ 180AH IP68 Gel Bat sys 3yrs	180 Ah	750	Gel	12 V
52144500	XGS321 12V/ 250AH IP68 Gel Bat sys 3yrs	250 Ah	750	Gel	12 V

Order Code	Full Product Name	Ambient temperature range
01816902	XGS321 12V/65AH IP68 Gel Bat sys 5yrs	-20 to +55 °C
01818002	XGS322 12V/100AH IP68 Gel Bat 5yrs For24	-20 to +55 °C
72903200	XGS321 12V/180AH IP68 Gel Bat sys 3yrs	-20 to +55 °C
52144500	XGS321 12V/250AH IP68 Gel Bat sys 3yrs	-20 to +55 °C

Order Code	Full Product Name	Overall height	Overall length	Overall width
01818002	XGS322 12V/100AH IP68 Gel Bat 5yrs For24	273 mm	329 mm	344 mm
72903200	XGS321 12V/180AH IP68 Gel Bat sys 3yrs	218 mm	522 mm	238 mm
52144500	XGS321 12V/250AH IP68 Gel Bat sys 3yrs	220 mm	520 mm	269 mm

Order Code	Full Product Name	Ambient temperature range for charging	Ambient temperature range for discharging (when light is on)
01818002	XGS322 12V/100AH IP68 Gel Bat 5yrs For24	-20 °C to +55 °C	-20 °C to +55 °C
72903200	XGS321 12V/180AH IP68 Gel Bat sys 3yrs	-20 °C to +55 °C	-20 °C to +55 °C
52144500	XGS321 12V/250AH IP68 Gel Bat sys 3yrs	-20 °C to +55 °C	-20 °C to +55 °C

## Solar Battery Sub System

