



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



Lithium Ferro Phosphate battery



Lithium Ferro Phosphate battery



Lithium Ferro Phosphate battery



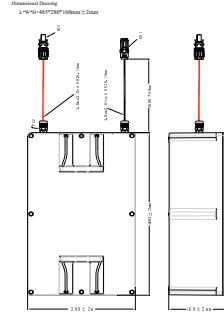
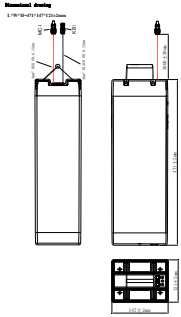
Lithium Ferro Phosphate battery



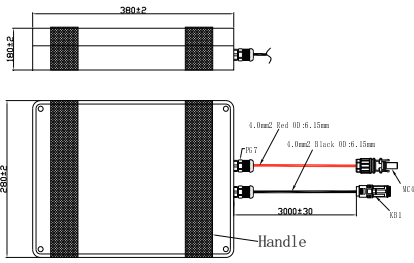
Lithium Ferro Phosphate battery

Solar Battery Sub System

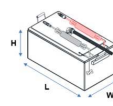
Dimensional drawing



Dimensional drawing
L*W*H=380*280*180mm ± 2mm

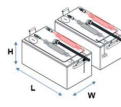


12V Gel Battery Subsystem



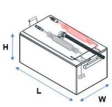
| Description | Battery Size (cm) LxWxH |
|--|-------------------------|
| MS5321 12V/80Ah IP68 gel battery sub-system | 35x16x162.5 |
| MS5322 12V/80Ah IP68 gel battery sub-system | 35 3x17 2x27.3 |
| MS5323 12V/100Ah IP68 gel battery sub-system | 35 3x17 2x27.3 |
| MS5324 12V/120Ah IP68 gel battery sub-system | 40x17 4x26.6 |
| MS5325 12V/150Ah IP68 gel battery sub-system | 40x17 4x26.6 |
| MS5326 12V/180Ah IP68 gel battery sub-system | 52 2x23 8x21.8 |
| MS5327 12V/200Ah IP68 gel battery sub-system | 52 2x23 8x21.8 |
| MS5328 12V/250Ah IP68 gel battery sub-system | 52 2x23 8x21.8 |

24V Gel Battery Subsystem



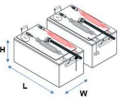
| Description | Battery Size (cm) LxWxH |
|--|-------------------------|
| MS5329 12V/80Ah IP68 Gel Bat. Sys. For 24 | 35x16x162.5 |
| MS5330 12V/80Ah IP68 Gel Bat. Sys. For 24 | 35 3x17 2x27.3 |
| MS5331 12V/100Ah IP68 Gel Bat. Sys. For 24 | 35 3x17 2x27.3 |
| MS5332 12V/120Ah IP68 Gel Bat. Sys. For 24 | 40 3x17 4x26.6 |
| MS5333 12V/150Ah IP68 Gel Bat. Sys. For 24 | 40 3x17 4x26.6 |
| MS5334 12V/180Ah IP68 Gel Bat. Sys. For 24 | 52 2x23 8x21.8 |
| MS5335 12V/200Ah IP68 Gel Bat. Sys. For 24 | 52 2x23 8x21.8 |
| MS5336 12V/250Ah IP68 Gel Bat. Sys. For 24 | 52 2x23 8x21.8 |

12V Gel Battery Subsystem



| Description | Battery Size (cm) LxWxH |
|--|-------------------------|
| MS5321 12V/80Ah IP68 gel battery sub-system | 35x16x162.5 |
| MS5322 12V/80Ah IP68 gel battery sub-system | 35 3x17 2x27.3 |
| MS5323 12V/100Ah IP68 gel battery sub-system | 35 3x17 2x27.3 |
| MS5324 12V/120Ah IP68 gel battery sub-system | 40 3x17 4x26.6 |
| MS5325 12V/150Ah IP68 gel battery sub-system | 40 3x17 4x26.6 |
| MS5326 12V/180Ah IP68 gel battery sub-system | 52 2x23 8x21.8 |
| MS5327 12V/200Ah IP68 gel battery sub-system | 52 2x23 8x21.8 |
| MS5328 12V/250Ah IP68 gel battery sub-system | 52 2x23 8x21.8 |

24V Gel Battery Subsystem



| Description | Battery Size (cm) LxWxH |
|--|-------------------------|
| MS5329 12V/80Ah IP68 Gel Bat. Sys. For 24 | 35x16x162.5 |
| MS5330 12V/80Ah IP68 Gel Bat. Sys. For 24 | 35 3x17 2x27.3 |
| MS5331 12V/100Ah IP68 Gel Bat. Sys. For 24 | 35 3x17 2x27.3 |
| MS5332 12V/120Ah IP68 Gel Bat. Sys. For 24 | 40 3x17 4x26.6 |
| MS5333 12V/150Ah IP68 Gel Bat. Sys. For 24 | 40 3x17 4x26.6 |
| MS5334 12V/180Ah IP68 Gel Bat. Sys. For 24 | 52 2x23 8x21.8 |
| MS5335 12V/200Ah IP68 Gel Bat. Sys. For 24 | 52 2x23 8x21.8 |
| MS5336 12V/250Ah IP68 Gel Bat. Sys. For 24 | 52 2x23 8x21.8 |

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

Operating and Electrical

| Order Code | Full Product Name | Battery ampere hour | Battery charging & discharging cycles | Battery type | Battery voltage |
|--------------|---------------------------|---------------------|---------------------------------------|-------------------------|-----------------|
| 911401823202 | ZJS601 80AH 12.8V Battery | 80 Ah | 2000 | Lithium Ferro Phosphate | 12.8 V |

| Order Code | Full Product Name | Battery ampere hour | Battery charging & discharging cycles | Battery type | Battery voltage |
|--------------|----------------------------|---------------------|---------------------------------------|-------------------------|-----------------|
| 911401823702 | ZJS601 120AH 25.6V Battery | 120 Ah | 2000 | Lithium Ferro Phosphate | 25.6 V |

Solar Battery Sub System

| Order Code | Full Product Name | Battery ampere hour | Battery charging & discharging cycles | Battery type | Battery voltage |
|--------------|---|---------------------|---------------------------------------|-------------------------|-----------------|
| 911401823402 | ZJS601 120AH 12.8V Battery | 120 Ah | 2000 | Lithium Ferro Phosphate | 12.8 V |
| 911401823002 | ZJS601 50AH 12.8V Battery | 50 Ah | 2000 | Lithium Ferro Phosphate | 12.8 V |
| 911401822402 | ZJS601 100AH 25.6V Battery | 100 Ah | 2000 | Lithium Ferro Phosphate | 25.6 V |
| 911401823102 | ZJS601 70AH 12.8V Battery | 70 Ah | 2000 | Lithium Ferro Phosphate | 12.8 V |
| 911401823302 | ZJS601 100AH 12.8V Battery | 100 Ah | 2000 | Lithium Ferro Phosphate | 12.8 V |
| 911401823602 | ZJS601 90AH 25.6V Battery | 90 Ah | 2000 | Lithium Ferro Phosphate | 25.6 V |
| 911401823502 | ZJS601 70AH 25.6V Battery | 70 Ah | 2000 | Lithium Ferro Phosphate | 25.6 V |
| 911401816902 | XGS321 12V/65AH IP68 Gel Bat sys 5yrs | 65 Ah | 750 | Gel | 12 V |
| 911401817002 | XGS321 12V/80AH IP68 Gel Bat sys 5yrs | 80 Ah | 750 | Gel | 12 V |
| 911401817102 | XGS321 12V/100AH IP68 Gel Bat sys 5yrs | 100 Ah | 750 | Gel | 12 V |
| 911401817302 | XGS321 12V/150AH IP68 Gel Bat sys 5yrs | 150 Ah | 750 | Gel | 12 V |
| 911401817402 | XGS321 12V/180AH IP68 Gel Bat sys 5yrs | 180 Ah | 750 | Gel | 12 V |
| 911401817502 | XGS321 12V/200AH IP68 Gel Bat sys 5yrs | 200 Ah | 750 | Gel | 12 V |
| 911401817802 | XGS322 12V/65AH IP68 Gel Bat 5yrs For24 | 65 Ah | 750 | Gel | 24 V |

| Order Code | Full Product Name | Battery ampere hour | Battery charging & discharging cycles | Battery type | Battery voltage |
|--------------|--|---------------------|---------------------------------------|--------------|-----------------|
| 911401818002 | XGS322 12V/100AH IP68 Gel Bat 5yrs For24 | 100 Ah | 750 | Gel | 24 V |
| 911401818202 | XGS322 12V/150AH IP68 Gel Bat 5yrs For24 | 150 Ah | 750 | Gel | 24 V |
| 911401818802 | XGS321 12V/80AH IP68 Gel Bat sys 3yrs | 80 Ah | 750 | Gel | 12 V |
| 911401818902 | XGS321 12V/100AH IP68 Gel Bat sys 3yrs | 100 Ah | 750 | Gel | 12 V |
| 911401819002 | XGS321 12V/120AH IP68 Gel Bat sys 3yrs | 120 Ah | 750 | Gel | 12 V |
| 911401819202 | XGS321 12V/180AH IP68 Gel Bat sys 3yrs | 180 Ah | 750 | Gel | 12 V |
| 911401819502 | XGS321 12V/250AH IP68 Gel Bat sys 3yrs | 250 Ah | 750 | Gel | 12 V |
| 911401819602 | XGS322 12V/65AH IP68 Gel Bat 3yrs For24 | 65 Ah | 750 | Gel | 24 V |
| 911401820002 | XGS322 12V/150AH IP68 Gel Bat 3yrs For24 | 150 Ah | 750 | Gel | 24 V |
| 911401820402 | XGS322 12V/250AH IP68 Gel Bat 3yrs For24 | 250 Ah | 750 | Gel | 24 V |

Temperature

| Order Code | Full Product Name | Ambient temperature range |
|--------------|---------------------------------------|---------------------------|
| 911401823202 | ZJS601 80AH 12.8V Battery | 0 to +60 °C |
| 911401823702 | ZJS601 120AH 25.6V Battery | 0 to +60 °C |
| 911401823402 | ZJS601 120AH 12.8V Battery | 0 to +60 °C |
| 911401823002 | ZJS601 50AH 12.8V Battery | 0 to +60 °C |
| 911401822402 | ZJS601 100AH 25.6V Battery | 0 to +60 °C |
| 911401823102 | ZJS601 70AH 12.8V Battery | 0 to +60 °C |
| 911401823302 | ZJS601 100AH 12.8V Battery | 0 to +60 °C |
| 911401823602 | ZJS601 90AH 25.6V Battery | 0 to +60 °C |
| 911401823502 | ZJS601 70AH 25.6V Battery | 0 to +60 °C |
| 911401816902 | XGS321 12V/65AH IP68 Gel Bat sys 5yrs | -20 to +55 °C |

| Order Code | Full Product Name | Ambient temperature range |
|--------------|--|---------------------------|
| 911401817002 | XGS321 12V/80AH IP68 Gel Bat sys 5yrs | -20 to +55 °C |
| 911401817102 | XGS321 12V/100AH IP68 Gel Bat sys 5yrs | -20 to +55 °C |
| 911401817302 | XGS321 12V/150AH IP68 Gel Bat sys 5yrs | -20 to +55 °C |
| 911401817402 | XGS321 12V/180AH IP68 Gel Bat sys 5yrs | -20 to +55 °C |
| 911401817502 | XGS321 12V/200AH IP68 Gel Bat sys 5yrs | -20 to +55 °C |
| 911401817802 | XGS322 12V/65AH IP68 Gel Bat 5yrs For24 | -20 to +55 °C |
| 911401818002 | XGS322 12V/100AH IP68 Gel Bat 5yrs For24 | -20 to +55 °C |
| 911401818202 | XGS322 12V/150AH IP68 Gel Bat 5yrs For24 | -20 to +55 °C |

Solar Battery Sub System

| Order Code | Full Product Name | Ambient temperature range |
|--------------|--|---------------------------|
| 911401818802 | XGS321 12V/80AH IP68 Gel Bat sys 3yrs | -20 to +55 °C |
| 911401818902 | XGS321 12V/100AH IP68 Gel Bat sys 3yrs | -20 to +55 °C |
| 911401819002 | XGS321 12V/120AH IP68 Gel Bat sys 3yrs | -20 to +55 °C |
| 911401819202 | XGS321 12V/180AH IP68 Gel Bat sys 3yrs | -20 to +55 °C |
| 911401819502 | XGS321 12V/250AH IP68 Gel Bat sys 3yrs | -20 to +55 °C |

| Order Code | Full Product Name | Ambient temperature range |
|--------------|--|---------------------------|
| 911401819602 | XGS322 12V/65AH IP68 Gel Bat 3yrs For24 | -20 to +55 °C |
| 911401820002 | XGS322 12V/150AH IP68 Gel Bat 3yrs For24 | -20 to +55 °C |
| 911401820402 | XGS322 12V/250AH IP68 Gel Bat 3yrs For24 | -20 to +55 °C |

Mechanical and Housing

| Order Code | Full Product Name | Overall height | Overall length | Overall width |
|--------------|--|----------------|----------------|---------------|
| 911401823202 | ZJS601 80AH 12.8V Battery | 471 mm | 147 mm | 121 mm |
| 911401823702 | ZJS601 120AH 25.6V Battery | 160 mm | 280 mm | 485 mm |
| 911401823402 | ZJS601 120AH 12.8V Battery | 180 mm | 280 mm | 380 mm |
| 911401823002 | ZJS601 50AH 12.8V Battery | 471 mm | 147 mm | 121 mm |
| 911401822402 | ZJS601 100AH 25.6V Battery | 160 mm | 280 mm | 485 mm |
| 911401823102 | ZJS601 70AH 12.8V Battery | 471 mm | 147 mm | 121 mm |
| 911401823302 | ZJS601 100AH 12.8V Battery | 471 mm | 147 mm | 121 mm |
| 911401823602 | ZJS601 90AH 25.6V Battery | 160 mm | 280 mm | 485 mm |
| 911401823502 | ZJS601 70AH 25.6V Battery | 180 mm | 280 mm | 380 mm |
| 911401816902 | XGS321 12V/65AH IP68 Gel Bat sys 5yrs | 235 mm | 350 mm | 166 mm |
| 911401817002 | XGS321 12V/80AH IP68 Gel Bat sys 5yrs | 273 mm | 329 mm | 172 mm |
| 911401817102 | XGS321 12V/100AH IP68 Gel Bat sys 5yrs | 273 mm | 329 mm | 172 mm |
| 911401817302 | XGS321 12V/150AH IP68 Gel Bat sys 5yrs | 300 mm | 480 mm | 170 mm |
| 911401817402 | XGS321 12V/180AH IP68 Gel Bat sys 5yrs | 218 mm | 522 mm | 238 mm |
| 911401817502 | XGS321 12V/200AH IP68 Gel Bat sys 5yrs | 218 mm | 522 mm | 238 mm |

| Order Code | Full Product Name | Overall height | Overall length | Overall width |
|--------------|--|----------------|----------------|---------------|
| 911401817802 | XGS322 12V/65AH IP68 Gel Bat 5yrs For24 | 235 mm | 350 mm | 332 mm |
| 911401818002 | XGS322 12V/100AH IP68 Gel Bat 5yrs For24 | 273 mm | 329 mm | 344 mm |
| 911401818202 | XGS322 12V/150AH IP68 Gel Bat 5yrs For24 | 300 mm | 480 mm | 340 mm |
| 911401818802 | XGS321 12V/80AH IP68 Gel Bat sys 3yrs | 273 mm | 329 mm | 172 mm |
| 911401818902 | XGS321 12V/100AH IP68 Gel Bat sys 3yrs | 273 mm | 329 mm | 172 mm |
| 911401819002 | XGS321 12V/120AH IP68 Gel Bat sys 3yrs | 266 mm | 406 mm | 174 mm |
| 911401819202 | XGS321 12V/180AH IP68 Gel Bat sys 3yrs | 218 mm | 522 mm | 238 mm |
| 911401819502 | XGS321 12V/250AH IP68 Gel Bat sys 3yrs | 220 mm | 520 mm | 269 mm |
| 911401819602 | XGS322 12V/65AH IP68 Gel Bat 3yrs For24 | 235 mm | 350 mm | 332 mm |
| 911401820002 | XGS322 12V/150AH IP68 Gel Bat 3yrs For24 | 300 mm | 480 mm | 340 mm |
| 911401820402 | XGS322 12V/250AH IP68 Gel Bat 3yrs For24 | 220 mm | 520 mm | 538 mm |

Application Conditions

| Order Code | Full Product Name | Ambient temperature range for charging | Ambient temperature range for discharging (when light is on) |
|--------------|----------------------------|--|--|
| 911401823202 | ZJS601 80AH 12.8V Battery | 0 °C to +60 °C | -20 °C to +60 °C |
| 911401823702 | ZJS601 120AH 25.6V Battery | 0 °C to +60 °C | -20 °C to +60 °C |
| 911401823402 | ZJS601 120AH 12.8V Battery | 0 °C to +60 °C | -20 °C to +60 °C |
| 911401823002 | ZJS601 50AH 12.8V Battery | 0 °C to +60 °C | -20 °C to +60 °C |
| 911401822402 | ZJS601 100AH 25.6V Battery | 0 °C to +60 °C | -20 °C to +60 °C |

| Order Code | Full Product Name | Ambient temperature range for charging | Ambient temperature range for discharging (when light is on) |
|--------------|---------------------------------------|--|--|
| 911401823102 | ZJS601 70AH 12.8V Battery | 0 °C to +60 °C | -20 °C to +60 °C |
| 911401823302 | ZJS601 100AH 12.8V Battery | 0 °C to +60 °C | -20 °C to +60 °C |
| 911401823602 | ZJS601 90AH 25.6V Battery | 0 °C to +60 °C | -20 °C to +60 °C |
| 911401823502 | ZJS601 70AH 25.6V Battery | 0 °C to +60 °C | -20 °C to +60 °C |
| 911401816902 | XGS321 12V/65AH IP68 Gel Bat sys 5yrs | -20 °C to +55 °C | -20 °C to +55 °C |

Solar Battery Sub System

| Order Code | Full Product Name | Ambient temperature range for charging | Ambient temperature range for discharging (when light is on) |
|--------------|--|--|--|
| 911401817002 | XGS321 12V/80AH IP68 Gel Bat sys 5yrs | -20 °C to +55 °C | -20 °C to +55 °C |
| 911401817102 | XGS321 12V/100AH IP68 Gel Bat sys 5yrs | -20 °C to +55 °C | -20 °C to +55 °C |
| 911401817302 | XGS321 12V/150AH IP68 Gel Bat sys 5yrs | -20 °C to +55 °C | -20 °C to +55 °C |
| 911401817402 | XGS321 12V/180AH IP68 Gel Bat sys 5yrs | -20 °C to +55 °C | -20 °C to +55 °C |
| 911401817502 | XGS321 12V/200AH IP68 Gel Bat sys 5yrs | -20 °C to +55 °C | -20 °C to +55 °C |
| 911401817802 | XGS322 12V/65AH IP68 Gel Bat 5yrs For24 | -20 °C to +55 °C | -20 °C to +55 °C |
| 911401818002 | XGS322 12V/100AH IP68 Gel Bat 5yrs For24 | -20 °C to +55 °C | -20 °C to +55 °C |
| 911401818202 | XGS322 12V/150AH IP68 Gel Bat 5yrs For24 | -20 °C to +55 °C | -20 °C to +55 °C |

| Order Code | Full Product Name | Ambient temperature range for charging | Ambient temperature range for discharging (when light is on) |
|--------------|--|--|--|
| 911401818802 | XGS321 12V/80AH IP68 Gel Bat sys 3yrs | -20 °C to +55 °C | -20 °C to +55 °C |
| 911401818902 | XGS321 12V/100AH IP68 Gel Bat sys 3yrs | -20 °C to +55 °C | -20 °C to +55 °C |
| 911401819002 | XGS321 12V/120AH IP68 Gel Bat sys 3yrs | -20 °C to +55 °C | -20 °C to +55 °C |
| 911401819202 | XGS321 12V/180AH IP68 Gel Bat sys 3yrs | -20 °C to +55 °C | -20 °C to +55 °C |
| 911401819502 | XGS321 12V/250AH IP68 Gel Bat sys 3yrs | -20 °C to +55 °C | -20 °C to +55 °C |
| 911401819602 | XGS322 12V/65AH IP68 Gel Bat 3yrs For24 | -20 °C to +55 °C | -20 °C to +55 °C |
| 911401820002 | XGS322 12V/150AH IP68 Gel Bat 3yrs For24 | -20 °C to +55 °C | -20 °C to +55 °C |
| 911401820402 | XGS322 12V/250AH IP68 Gel Bat 3yrs For24 | -20 °C to +55 °C | -20 °C to +55 °C |

