**sun | power VR L**

Series OPzV/OPzV bloc

Valve regulated lead-acid batteries for cyclic applications

www.hoppecke-us.com
**sun | power VR L** Series OPzV

**Typical applications:**
- Village power supplies
- Hybrid systems
- Peak Shaving/voltage stabilisation
- Stations of mobile communications
- Sustainable tourism
- Cathodic corrosion protection
- Pumping systems

**Your benefits:**
- Maintenance-free regarding water refilling – due to innovative Gel-technology
- Very high cycle stability during PSoC\(^1\) operation – due to tubular plate design with efficient charge current acceptance
- Maximum compatibility – dimensions according to DIN 4074\(^2\)
- Optimal space utilization – due to possibility of horizontal arrangement\(^2\)
- Higher short-circuit safety even during the installation – based on HOPPECKE system connectors

**sun | power VR L** Series OPzV bloc

**Typical applications:**
- Solar home storage systems
- Hybrid systems
- Signalling systems
- Street lighting
- Stations of mobile communications
- Medical care facilities
- Cathodic corrosion protection

**Your benefits:**
- Maintenance-free regarding water refilling – due to innovative Gel-technology
- Very high cycle stability during PSoC\(^1\) operation – due to tubular plate design with efficient charge current acceptance
- Maximum compatibility – dimensions according to DIN 40744
- Easy assembly and installation – battery lid with integral handle
- Higher short-circuit safety even during the installation – based on HOPPECKE system connectors

**Service life in cycles and Depth of Discharge**

1. Partial State of Charge
2. Operating in a horizontal position is only possible with special variant. Please consider when ordering!
### Capacities, dimensions and weights

<table>
<thead>
<tr>
<th>Series OPzV bloc</th>
<th>Nominal voltage V</th>
<th>$C_{65}^{1/185,\text{V} @ 25^\circ\text{C}/77^\circ\text{F}}$</th>
<th>$C_{65}^{1/185,\text{V} @ 20^\circ\text{C}/68^\circ\text{F}}$</th>
<th>$C_{65}^{1/203,\text{V} @ 25^\circ\text{C}/77^\circ\text{F}}$</th>
<th>$C_{65}^{1/203,\text{V} @ 20^\circ\text{C}/68^\circ\text{F}}$</th>
<th>Weight kg</th>
<th>max.* Length L mm</th>
<th>max.* Width W mm</th>
<th>max.* Height H mm</th>
<th>Fig.</th>
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<tbody>
<tr>
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</table>

$C_{65}, C_{65}, C_{65}, C_{65},$ and $C_{65}$ = Capacity at 100 h, 50 h, 24 h, 10 h, and 8 h discharge

* according to DIN 40742 data to be understood as maximum values

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**Fig. A** Series OPzV bloc

**Fig. B** Series OPzV bloc

**Fig. C** Series OPzV

**Fig. D** Series OPzV

**Fig. E** Series OPzV

**Fig. F** Series OPzV

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Optimal environmental compatibility – closed loop for recovery of materials in an accredited recycling system

IEC 60896-21 · IEC 61427
Specifications:

Plate construction:
Positive plate: tubular (0.35” thick), Negative plate: flat plate design, (0.18” thick), both are lead-calcium alloy

Separators:
Microporous PVC free

Intercell connections:
Fully insulated copper cable connectors, “dead top design”

Electrolyte:
GEL - Sulfuric acid specific gravity 1.270 kg/l

Jar & Lid:
Lid is halogen free ABS, UL94-HB. Optional UL94-V0.
Jar is halogen free ABS, UL94-HB. Optional UL94-V0

Terminal post:
HOPPECKE molded corrosion free sliding pole terminal with M8 brass insert. Terminal Screw Torque: 20 Nm / 177 in-lbs

Relief valve:
Flashback protected pressure relief valve, 1 psi ± 30%

Charging:
Float voltage: 2.25 Vpc ± 1%,
Equalize voltage: 2.35 - 2.40 Vpc,
Charge current: 20 A/100 Ah typical

Designed in accordance with:
Tested in accordance with IEC 60896-21/22, Design DIN 40742