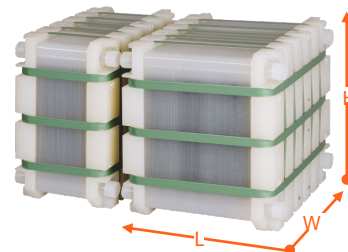


TECHNICAL DATA SHEET

vanadiumSTACK



| ELECTRICAL | vST.816 P | vST.832 P | vST.840 P |
|-------------------------------------|------------------|------------------|------------------|
| Voltage nominal | 24 VDC | 48 VDC | 48 VDC |
| Voltage range | 19.0 - 25.5 V | 38.0 - 51.0 V | 40.0 - 63.0 V |
| Current nominal | 90 A | 90 A | 90 A |
| Current peak | 150 A | 150 A | 150 A |
| Power constant | 2.0 kW | 4.0 kW | 5.0 kW |
| Power peak | 2.5 kW | 5.0 kW | 6.25 kW |
| Number of cells | 16 | 32 | 40 |
| Coulomb efficiency | 97 ± 1.0% | 95 ± 1.0% | 95 ± 1.0% |
| Energy efficiency at constant power | 81 ± 1.5% | 80 ± 1.5% | 79 ± 1.5% |
| Max. energy efficiency | 85 ± 1.5% | 83 ± 1.5% | 82 ± 1.5% |
| Resistance charge / discharge | 26 mΩ +2 /-6 mΩ | 52 mΩ +4 /-12 mΩ | 65 mΩ +5 /-15 mΩ |

HYDRAULICAL

| | | | |
|-------------------------|----------|------------|----------|
| Flow rate max. per side | 12 L/min | 24 L/min | 30 L/min |
| Gauge pressure max. | | 1.000 mbar | |
| Gauge pressure nominal | | 800 mbar | |
| Gauge pressure min. | | -100 mbar | |
| Pipe connection | | 32 mm | |

GENERAL

| | | | |
|-----------------------|---|-----------------------|-----------------------|
| Dimensions (±10 mm) | B 389 x L 165 x H 374 | B 389 x L 248 x H 374 | B 389 x L 290 x H 374 |
| | mm | mm | mm |
| Weight | 14.4 kg | 18.7 kg | 20.6 kg |
| Operating temperature | 0 - 40°C | | |
| Membrane | anion exchange for vanadium electrolyte | | |