



### Benefits

- Very high specific energy
- Maintenance free
- Long cycle life (> 1500 cycles at 80% depth of discharge)

### Applications

- Electric vehicles
- Telecommunications
- Stationary
- Defence

### Technology

- Graphite-based anode
- Nickel oxide-based cathode
- Electrolyte: blend of carbonate solvents + LiPF<sub>6</sub>

### Electrical characteristics

Nominal voltage (V)	3.6
Average capacity at C/3 rate @ 4.0 V, + 20°C (Ah)	45
Minimum capacity at C/3 rate @ 4.0V, + 20°C (Ah)	42
Specific energy (Wh/kg)	150
Energy density (Wh/dm <sup>3</sup> )	310
Specific power at 80% DOD, 150 A, 30 s peak (W/kg)	420
Power density (W/dm <sup>3</sup> )	880

### Mechanical characteristics

Diameter (mm)	54
Maximum height (mm)	222
Weight (kg)	1.07
Volume (dm <sup>3</sup> )	0.51

### Operating conditions

Operating temperature range (°C)	
with thermal management system	-25 / +60
Transport and storage temperature range (°C)	-40 / +65

### Voltage limits

Charge (V)	4.0 (4.1 for peak)
Discharge (V)	2.7 (2.3 for peak)

### Current limits :

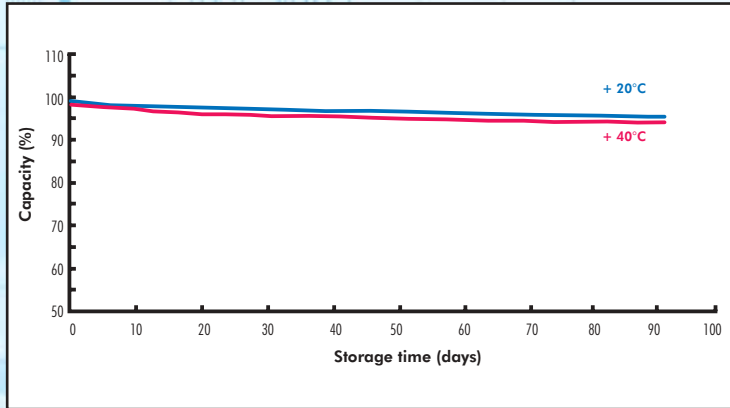
Maximum continuous current (A)	100
Maximum 10 s peak current (A)	200



# HIGH ENERGY

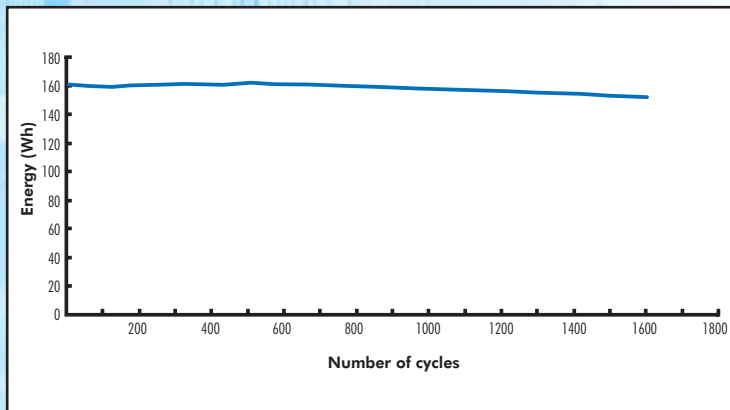
Lithium-ion VL 45 E cell

## Charge retention during a storage at 4.0V

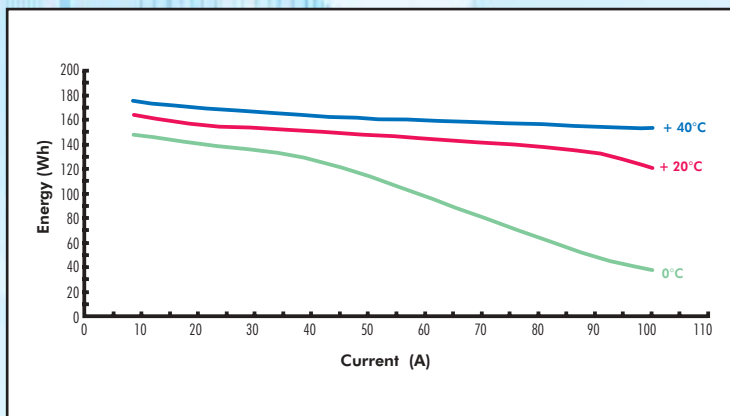


## Cycling in DST profile 80% depth of discharge at +20°C

Energy in discharge C/3 rate



## Energy in continuous discharge



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