



Power Start

12v Lithium-Ion Starter



PowerTech
systems

Leightweight - High Power - Lithium-Ion starter Battery

- **High Service life** : 2000 cycles and more (see chart)
- **Deep discharge** allowed up to 100 %
- **Cell heating system activated by Bluetooth**
- Ultra safe **Lithium Iron Phosphate** chemistry (no thermal run-away, no fire or explosion risks)
- About **50 % lighter** and **60% smaller** than conventional Lead-acid battery.
- **Embedded BMS** (Battery Management System) : **improve lifespan AND secure the battery**
- **Flexible deployment** : up to 16 packs in parallel
- No **Lead**, no **rare earths**, no **acid**, no **degassing**
- Calendar life > **10 years**
- Excellent **temperature** robustness (-20 °C up to +60 °C)
- **Constant power** during discharge (very low internal resistance)
- **Very low Peukert's losses** (energy efficiency >96 %)
- **Very low self discharge** (<3 % per month)
- **No memory effect**

Technical Specifications

Electric	Nominal voltage / Nominal capacity	12.8V / 15Ah
	Stored energy	192 Wh
	Volumetric energy density / Specific energy	80.4 Wh/L / 72.2 Wh/Kg
	Internal resistance	≤ 25mΩ
	Cycles	See charts
	Self discharge	< 3% per month
	Energy efficiency	> 98%
Standard Charge	Charge voltage	14.4 V ± 0.2 V (Optional floating voltage : 13.36V max)
	Charge mode	CC/CV : Constant Current / Constant Voltage
	Continuous charge current / Maximum charge current	25 A / 45 A
	BMS charge cut-off voltage	14.8 V ± 0.1V
Discharge	Instant peak discharge current @20°C ambient temp	600 A ± 20 A (≈ 7.68kW) : max 5 seconds
		300 A ± 10 A (≈ 3.84kW) : max 90 seconds
	Continuous discharge current	100 A (1.28 kW)
	BMS discharge cut-off voltage	10 V
Environment	Charge temperature range	0°C to +60°C
	Discharge temperature range	-20°C to +60°C
	Storage temperature	0°C to +50°C @60±25% relative humidity
	IP protection level	IP 65
Mechanical	Type of cells	High Power Cylindrical cells
	Casing material	ABS
	Dimensions	L : 180mm x P : 78mm x H : 170 mm (same as Odyssey 680)
	Weight	2.66 kg
	Terminal	M6 bolt



APPLICATIONS

- **Starter batteries replacement**
- **Systems with high current peaks**
- **Heavy-duty electric tools**
- **Very High Power applications**
- **Airplane starter batteries**
- **Microlight, LSA**
- **Motorbike, scooters, quads, etc**
- **Jet-ski, Snowmobile**

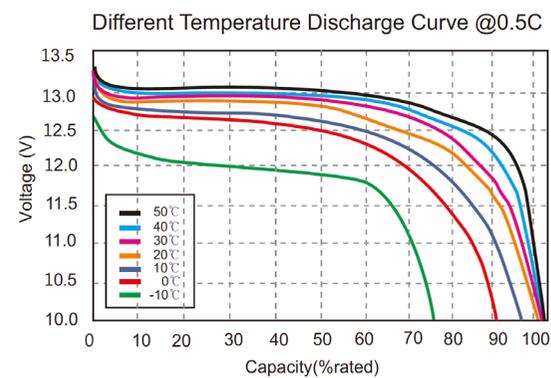
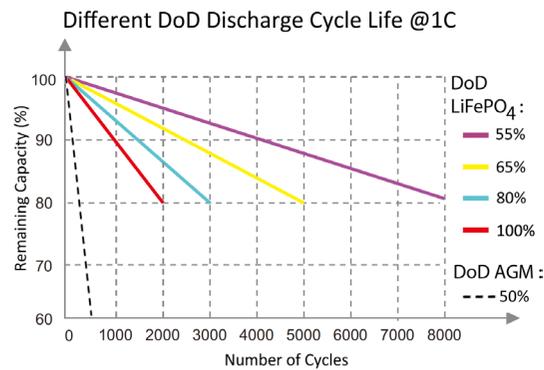
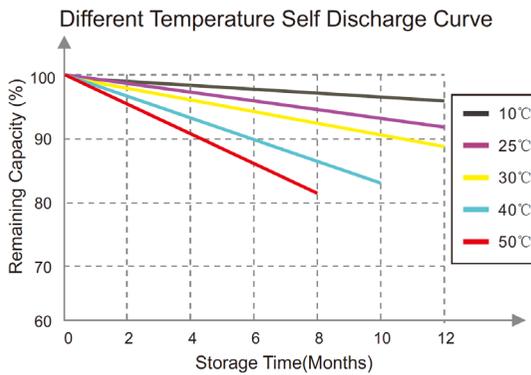
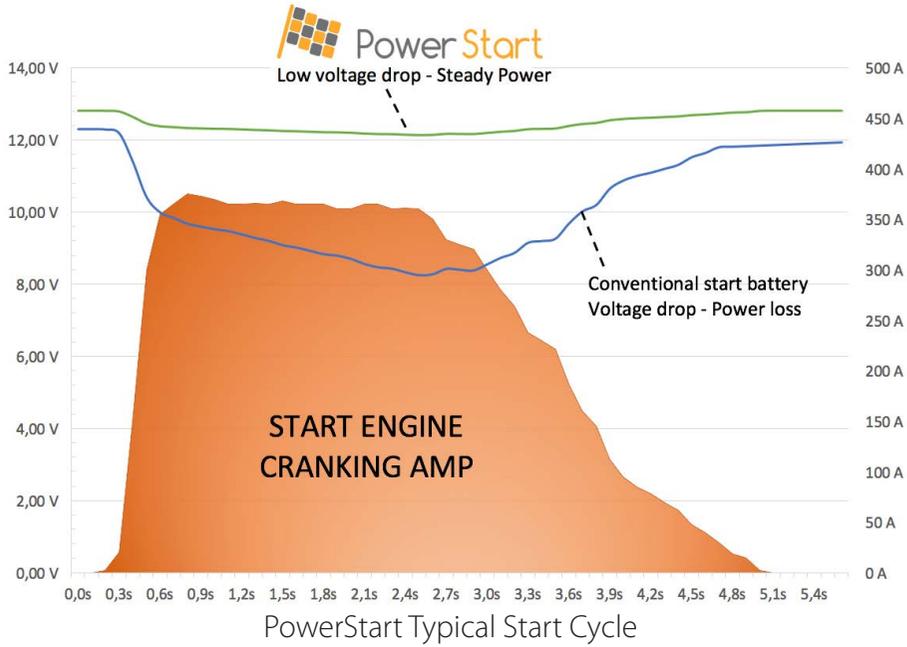
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Charts and curves



V1.5

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