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SUPREME POWER

Battery Specialist

Specification for Nickel Metal Hydride Battery Power Pack

Model: *SP12V9AH-M01*

Chemical System:	Nickel Metal Hydride	Ni-MH
Type of Battery	D size	
Nominal Voltage	12 V	
Nominal Capacity	Low Rate - 0.2C	9 Ah
Weight	2 Kg	



Dimension	Length (mm)	Width (mm)	Height (mm)
	100	55	350

Connector Type	Terminal Heads	Refer to drawing
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Capacity		Charge	Discharge	Minimum	Typical
	Low Rate - 0.1C	0.1C	0.2C	9 Ah	10 Ah
	High Rate - 1C	0.1C	1C	8.1 Ah	8.6 Ah

Charging		Standard	Quick*	Fast*
	Minimum Charge	1 A (0.1C)	1 A	1 A
	Time Required (hrs)	16 hrs	16 hrs	16 hrs
	Maximum Charge	2 A	5 A	9 A
	Time Required (hrs)	< 8 hrs	< 2.5 hrs	< 72 min (or -ΔV)
	Minimum Overcharge	0.9 A (0.1C)		
	Maximum Overcharge	18 A with cut-off control		

Maximum Discharge Current & Power	Continuous	Momentary (1 second)
	27 A	90 A
	324 Watts	1080 Watts

Temperature		Storage for < 1 Month (°C)	Storage for < 1 Year (°C)
	Minimum	-20	-10
	Maximum	40	30
		Discharge (°C)	Charge (°C)
	Minimum	-20	0
	Maximum	50	45

Service Life	Standard (IEC61436)	upto 500 cycles (for reference)
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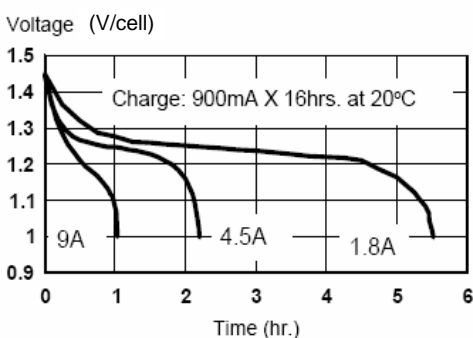
Designations	IEC - 61436/FIDS
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* Quick & Fast charge require cut-off control circuitry to terminate charge and switch to trickle charge after full charge

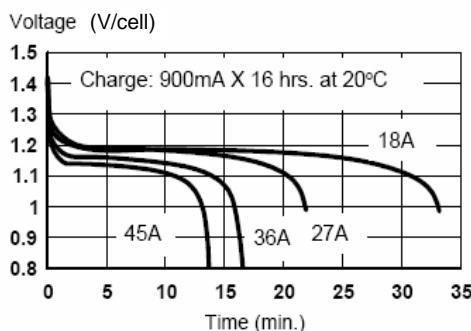
Remark: The information contained herein is presented only as a guide for the applications of our products

Data in this specification are subjected to change without notice and become contractual only after written confirmation by STI (Hong Kong) Limited

Low Drain Discharge



High Drain Discharge



Connector Drawing

