

# STI (Hong Kong) Limited

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**SUPREME POWER**

*Battery Specialist*

## Specification for Nickel Metal Hydride Battery Power Pack

**Model:** *SP24V9AH-M02*



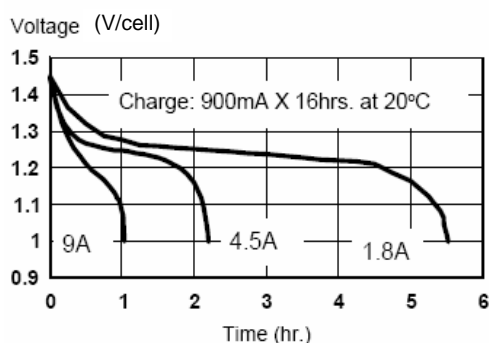
<b>Chemical System:</b>	<b>Nickel Metal Hydride</b>	Ni-MH				
<b>Type of Battery</b>		D size				
<b>Nominal Voltage</b>		24 V				
<b>Nominal Capacity</b>	<b>Low Rate - 0.2C</b>	9 Ah				
<b>Weight</b>		4.2 Kg				
<b>Dimension</b>		<b>Length (mm)</b>	<b>Width (mm)</b>	<b>Height (mm)</b>		
		148	42	382		
<b>Connector Type</b>	<b>Terminal Heads</b>	Refer to drawing				
<b>Capacity</b>		<b>Charge</b>	<b>Discharge</b>	<b>Minimum</b>	<b>Typical</b>	
	<b>Low Rate - 0.1C</b>	0.1C	0.2C	9 Ah	10 Ah	
	<b>High Rate - 1C</b>	0.1C	1C	8.1 Ah	8.6 Ah	
<b>Charging</b>		<b>Standard</b>	<b>Quick *</b>	<b>Fast *</b>		
	<b>Minimum Charge</b>	1 A (0.1C)	1 A	1 A		
	<b>Time Required (hrs)</b>	16 hrs	16 hrs	16 hrs		
	<b>Maximum Charge</b>	2 A	5 A	9 A		
	<b>Time Required (hrs)</b>	< 8 hrs	< 2.5 hrs	< 72 min (or -ΔV)		
	<b>Minimum Overcharge</b>	0.9 A (0.1C)				
	<b>Maximum Overcharge</b>	18 A with cut-off control				
<b>Maximum Discharge Current &amp; Power</b>		<b>Continuous</b>		<b>Momentary (1 second)</b>		
		25 A		90 A		
		600 Watts		2160 Watts		
<b>Temperature</b>		<b>Storage for &lt; 1 Month (°C)</b>		<b>Storage for &lt; 1 Year (°C)</b>		
	<b>Minimum</b>	-20		-10		
	<b>Maximum</b>	40		30		
		<b>Discharge (°C)</b>		<b>Charge (°C)</b>		
	<b>Minimum</b>	-20		0		
	<b>Maximum</b>	50		45		
<b>Service Life</b>	<b>Standard (IEC61436)</b>	upto 500 cycles (for reference)				
<b>Designations</b>	<b>IEC - 61436/FIDS</b>					

\* 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**

