

	PRODUCT SPECIFICATION	Rev.	1.0
		Date	2008.08.28
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SPECIFICATION OF PRODUCT

Rechargeable Li-ion Battery Pack
Model : NM36S(SH36S),12.0V, 3800mAh

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1. Descriptions

1.1 Description Nickel metal hydride rechargeable battery pack

1.2 Battery Cell Configuration 1P-10S

2. Electrical specification

Item	Specification	Remarks
2.1 Capacity	3800mAh	Nominal (0.1C charge and 0.2C discharge)
	3600mAh	Minimum
2.2 Voltage	12.0V	Nominal
2.3 Charging method	CC	Constant current
2.4 Charging voltage	18.0±0.05V	
2.5 Charging current	380mA	Standard (Normal charge)
	1600mA	Maximum (Quick charge)
2.6 Charging current cut-off	Peak Dv > 0.10V	Fast charge
	dT/dt>1 deg.C/min	Nominal charge
2.7 Discharging current	760mA	Standard
	1900mA	Continuous
	3800mA	Less than 5s
2.8 Discharge cut-off voltage	9.0V	
2.9 Internal resistance	250 ~ 350mΩ	
2.10 Operating temperature	0 to 45°C	Standard charge
	-20 to 60°C	Standard discharge
2.11 Storage temperature	-20 ~ 30°C	≤ 1 Year
	-20 ~ 45°C	≤ 3 Months
	-20 ~ 60°C	≤ 1 Month
2.12 Storage humidity	20 ~ 85 % RH	Not condensed
2.13 Smart Module Communication	SMBus	Type
	v1.0	Revision

3. Safety specification

Item	Remarks	Specification
3.1 Over discharge	Prohibition	7.8±0.10V
	Release	12.0±0.10V
	Delay time	0.5 ~ 1s
3.2 Over current	Prohibition	4.0 ~ 6.0A
	Release	by charging
	Delay time	< 10ms
3.3 Power dissipation	Operating	< 300uA
	Shut down	< 30uA
	Shipping mode	< 10uA
3.4 Other protection components	Over-current protection with PTC	> 4.2A at 20deg.C
		> 3A at 60 deg.C
	Thermal fuse operation	> 93±5 deg.C

4. Physical specification

Item	Remarks	Specification
3.1 Dimension	L × W × H	149.0±0.5 × 89.0±0.5 × 19.5±0.5
3.2 Terminal (Output)		Power(+),Clock(C),Data(D),Thermistor(T),Power(-)
3.3 Weight		< 450g

