

	PRODUCT SPECIFICATION	Rev.	1.0
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SPECIFICATION OF PRODUCT

Rechargeable Ni-MH Battery Pack
Model : NM15SX (10.8V, 2100mAh)

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1. Descriptions

1.1 Description Nickel metal hydride rechargeable battery pack

1.2 Battery Cell Configuration 1P-9S

2. Electrical specification(@25 °C)

Item	Specification	Remarks
2.1 Capacity	2100mAh	Nominal (by standard charge and discharge)
	2000mAh	Minimum
2.2 Voltage	10.8V	Nominal
2.3 Charging method	CC	Constant current
2.4 Charging voltage	18.0±0.05V	
2.5 Charging current	210mA	Standard
	2100mA	Maximum
2.6 Charging current cut-off	Peak Dv > 0.90V	Fast charge
	dT/dt>1 deg.C/min	Nominal charge
2.7 Discharging current	420mA	Standard
	6300mA	Maximum
2.8 Discharge cut-off voltage	9.0V	
2.9 Internal resistance	< 300mΩ	
2.10 Operating temperature	0 to 40°C	Standard charge(Dumb charger)
	15 to 40°C	Standard charge(Smart charger)
	-20 to 60°C	Standard discharge
2.11 Storage temperature	0 ~ 25°C	≤ 1 Year
	0 ~ 35°C	≤ 3 Months
	0 ~ 45°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	7.80V±0.80V
	Release	12.0±0.20V
	Delay time	<1.0sec.
3.2 Over current	Prohibition	9.0 ~ 16.0A(Depend on cell voltage)
	Release	by charging
	Delay time	< 1.0sec
3.3 Power dissipation	Operating	< 400uA
	Shut down	< 200uA
3.4 Other protection components	Over-current protection with PTC	> 11A at 20°C, > 8A at 60°C
	Thermal Protector operating	> 70±5 deg.C
	Thermal Protector release	> 45±5 deg.C
	Thermal fuse operation	> 93±5 deg.C

4. Physical specification

Item	Remarks	Specification
3.1 Dimension	L x W x H	145.0±0.5 x 52.5±0.5 x 18.5±0.5
3.2 Terminal (Output)		Power(+),Clock(C),Data(D),Thermistor(T),Power(-)
3.3 Weight		< 350g

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