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# 6NH-SC3300PSK2

Revision: 3

# 1、SCOPE

This specification governs the performance of the following Camelion Nickel-Metal Hydride Cylindrical high drain stack-up battery.

Camelion Model: RC905G

Configuration and Description: 6NH-SC3300SK2 (with KET620006-2P)

Cell Size: SC(  $\phi$  22.5 $^{\pm 0.2}$  × H42.5 $^{\pm 0.5}$ )mm

 $SC(\Phi 0.88^{\pm 0.01} \times H1.67^{\pm 0.02})$ inch

# 2 、 DATA OF STACK UP BATTERIES

All data involves voltage and weight to stack-up battery are equal to the value of unit cell time the number of unit cell which consisted in the stack-up batteries

Example: Stack-up battery consisting six unit cells

Nominal voltage of stack-up batteries=1.2V×6=7.2V

# 3、RATINGS

Description	Unit	Specification	Conditions	
Nominal Voltage	V/Pack	7.2	Pack	
Nominal Capacity	mAh	3300	Standard Charge/Discharge	
Standard Charge	mA	330(0.1C)	T₁= 0~50°C	
Standard Charge	Hour	14~16		
	mA	3300(1C)	- ∆ V=0-10mV/Cell or	
Foot Charge			Timer CutOff=120 % nominal capacity	
Fast Charge	hour	1.2approx	or Temp.Cutoff=55℃,	
			T₁= 10~50°C	
Trickle Charge	mA	(0.05C)~(0.1C)	T₁= 0~50°C	
Standard discharge	mA	660(0.2C)	T₁= -30~60°C Humidity: Max.85%	
Discharge Cut-off	) //D = -I-	0.0		
Voltage	V/Pack	6.0		
Storage Temperature	$\mathbb{C}$	-30~65	Discharged state、Humidity、Max.85%	
Typical Weight	Gram	372		



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### 4、 PERFORMANCE

Notes:

Unless otherwise stated, tests should be done within one month of delivery under the following conditions:

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Ambient Temperature,  $T_1$ :  $20\pm5^{\circ}$ C Relative Humidity:  $65\pm20\%$ Standard Charge/Discharge Conditions:

Charge: 330mA(0.1C)×14 hours
Discharge: 660mA(0.2C) to 6.0V/Pack

Discharge: 660mA(0.2C) to 6.0V/Pack						
Test	Unit	Specification	Conditions	Remarks		
Capacity	mAh	≥3300	Standard Charge /Discharge	Up to 3 cycles are allowed		
Open Circuit Voltage(OCV)	V/ Pack	≥7.5	Within I hour after standard Charge			
Internal Impedance	m Ω / Cell	≤11	Upon fully charge(IKHz)			
High Rate Discharge(1C)		≥54	Standard Charge, I hour rest Before discharge by 3300mA (1C)to 6.0V/pack	Up to 3 cycles are allowed		
High Rate Discharge(5C)	minute	≥11	Standard Charge, I hour rest Before discharge by 16500mA (5C)to 4.2V/pack			
High Rate Discharge (10C)		≥5	Standard Charge, I hour rest Before discharge by 33000mA (10C)to 4.2V/pack			
Overcharge	1	No leakage nor explosion	330mA(0.1C)Charge 28 days			
Charge Retention	mAh	≥2310(70%)	Standard Charge, Storage: 28 days, Standard Discharge			
IEC Cycle Life	Cycle	≥500	IEC285(1993)4.4.1			
Leakage		No leakage nor deformation	Fully charged at 3300mA(1C) for 1.2hour Stand for 14 days			
Vibration Resistance		Change of voltage should be under 0.02V/cell, Change of impedance should be under 5 milli-ohm/cell	Charge the battery at 0.1C for 14hrs. Leave for 24hrs. Check battery before/after vibration, amplitude 1.5mm Vibration 3000 CPM in any direction for 60mins.			
Impact Resistance		Change of voltage should be under 0.02V/cell Change of impedance should be under 5 milli-ohm/cell	Charge the battery at 0.1C for 15hrs. Leave for 24hrs. Check battery before/after drop from 50cm height, onto wooden board(30mm thickness)3 times.			



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### 5、CONFIGURATION, DIMENSIONS AND MARKINGS

Please refer to the attached drawing.

### 6、EXTERNAL APPEARANCE

The cell/battery shall be free from cracks, scars, breakage, rust, discoloration, leakage nor deformation.

#### 7、WARRANTY

One year limited warranty against workmanship and material defects.

### 8、CAUTION

- (1) Reverse charging is not acceptable.
- (2) Charge before use. The cells/batteries are delivered in an uncharged state.
- (3)Do not charge/discharge with more than our specified current.
- (4)Do not short circuit the cell/battery Permanent damage to the cell/battery may result.
- (5)Do not incinerate or mutilate the cell/battery.
- (6)Do not solder directly to the cell/battery.
- (7)the life expectancy may be reduced if the cell/battery is subjected adverse conditions like: extreme temperature, deep cycling, excessive overcharge/ over-discharge.
- (8)store the cell/battery uncharged in a cool dry place. Always discharge batteries before bulk storage or shipment.

#### Notes:

(1) T<sub>1</sub>: Ambient Temperature.

(2) Approximate charge time from discharged state, for reference only.

(3) IEC285(1993)4.4.1 Cycle Life:

Cycle No.	Charge	Rest	Discharge	
1	0.1C×16h	None	0.25C×2h20min	
2-48	0.25C×3h10min	None	0.25C×2h20min	
49	0.25C×3h10min	None	0.25C to 1.0V/ cell	
50	0.1C×16h	1-4h	0.2C to 1.0V/ cell	
Cycles I to so shall be repeated until the discharge duration on any 50th				

Cycles I to so shall be repeated until the discharge duration on any 50th Cycle becomes less than 3 h.

<sup>(4)</sup> Environmental elements: in compliance with RoHS requirements.