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DESCRIPTION	Nickel-Metal Hydride Battery ( model No. CBS36B.40H)	EDITION	0	PAGE	1/7

## 1. Applicability

The specification is applicable to PortaPower Nickel-Metal Hydride Rechargeable batteries AMH13133

## 2. Ratings

2	•	1	Cell

2.1.1 Type of Cell	: Sealed Nickel-Metal Hydride cylindrical Recharge battery
2.1.2 Cell Model	: Sanyo HR-4/3AU
2.1.3 Cell Size	: 4/3AU
2.1.4 Cell Nominal capacity	: 4000 mAh
2.2.5 Minimum capacity	: 3500 mAh
2.1.6 Number of cell used	: 10PCS
2.2 Pack	

# 2

2.2.1 Nominal voltage	: 12V
2.2.2 Nominal capacity	: 4000 mAh
2.2.3 Minimum capacity	: 3500 mAh
2.2.4 charge method 2.2.5 Discharge end voltage	: 2000mAX130min : 10V
2.2.6 Replack No.	: Canon: DR36, DR36S Duracell: DR36, DR-36S, EMC36, NJ1020, SL36, SMP36 Hitachi: DR36S
2.2.7 Battery Pack Color	: Black
2.2.8 Operating temperature	: 0 - 45°C (charge) -20 - 50°C (discharge)
2.2.9 Storage temperature	: -20 - 50℃ (1 months) -20 - 40℃ (3 momths) -20 - 30℃ (1 year)

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# 3. Configuration and dimensions

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## 4. Test conditions

Unless otherwise specified,

- 7 7 month of delivery under the

e . . . . . . .

Ambient temperature

Relative humidity

CE . / 000

### 5. Performance

Item	Criteria	Test conditions
Capacit Y	Above 3500mAh	Standard charge and standard discharge
Interna 1 impedan ce	Less than 350mohm	Measure AC impedance at 1kHz
Cycle life **	Above 1900mAh	<pre>300 cycles charging/disch arging is repeated in the below condition. Charging: 2000mA Rest time: 1hrs Discharging : 2000mA up to 10V Temperature : 20±2°C</pre>
Leakage resista nce	No leakage	Visually inspect battery pack after standard charge and storage at 25°C for 14 days.

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		r
Drop test	No fire, no explosio n, no leakage (max. weight loss 0.1%) No fire, no explosio n,	Drop battery pack after standard charged onto a bakelife floor from a height of 50 cm for 6 times. The battery pack is vibrated in triaxial direction with 4 mm
Vibrati	no	with 4 mm
on test	leakage	amplitude of
on test	(max.	frequency 30 Hz
	weight	(1 Hz per minute)
	loss	for 1 minute in
	0.1%)	triaxial direction.
Short circuit test	No fire, no explosio n, cell temperat ure shall not exceed 150 °C Refer to	External short circuit
Dimensi ons	drawing of CBS36	
Battery	Approx.	Measured by
weight	609g	balance
Appeara nce	No crack, no leakage, no deformat ion	Visual inspection

Note: **\*\*** Data provided under "Cycle Life" in this document is our best estimate based on the

## 6. Material of Case

A non-inflammable material from GE injects the plastic casing, - - -

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### 8. Charge state of cell before ----

Charge from 10% to 50% 

### 9. Safety precaution

Please follow the safety of Nickel-Metal Hydride electrolyte leakage, heating 

Never charge the battery
Never reverse charge the
Never heat or incinerate
Never pierce, crush or
Never charge a battery
or near a fire.
Never short circuit the
Never discharge a
Never allow the battery
For long period of
After long period of
to recover capacity.

**10. SAFETY DEVICE AND ABUSE** REQUIREMENT

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Circuitry protection as described below has been presented inside the battery pack to insure safety in case of misuse.

**Over Current Protection** When battery load current

exceeds 7A at 20°C, the Polyswitch (PTC) shall trip abruptly to a highly resistive state limiting current to milliamps. The device shall remain in the tripped state until the fault is corrected or removed.