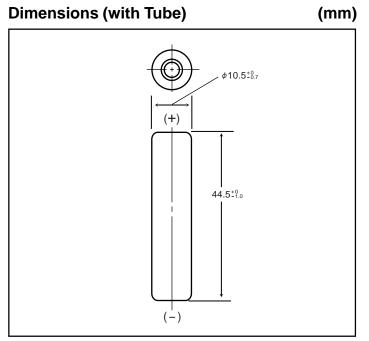
HHR60AAAH Cylindrical AAA size (HR 11/45)



Specifications

	mm	inch
Diameter	10.5 +0/-0.7	0.41 +0/-0.03
Height	44.5 +0/-1.0	1.75 +0/-0.04
Approximate	Grams	Ounces
Weight	13	0.46

Nominal Voltage		1.2V		
Discharge		Average ²	550 mAh	
Capacity ¹		Rated (Min.)	500 mAh	
Approx. Internal impedance at 1000Hz at charged state.		35mΩ		
Charge		Standard	50mA x 16hrs.	
		Rapid ³	250mA x 2.4 hrs.4	
		Low Rate	25mA x 32 hrs.	
			17mA x 48 hrs.	
t ure	Charge	Standard	0°	°F
			-10°C to 60°C	14°F to 140°F
		Rapid	-10°C to 45°C	14°F to 113°F
Discharge		-10°C to 60°C	14°F to 140°F	
Ambient Temperature	Storage	< 1 year	-20°C to 35°C	-4°F to 95°F
		< 6 months	-20°C to 45°C	-4°F to 113°F
		< 1 month	-20°C to 55°C	-4°F to 131°F
		< 1 week	-20°C to 65°C	-4°F to 149°F

¹ After charging at 0.1lt for 16 hours, discharging at 0.2lt.

² For reference only.

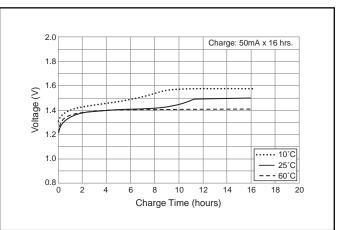
³ Need specially designed control system Control System: dT/dt cut-off; 1 to 2°C/min -△V cut-off; -△V per cell = 5 to 10 mV T-control; T=65°C Rapid charger timer; 2.4h (at 1.25a) Trickle timer; within 2h

SONIC

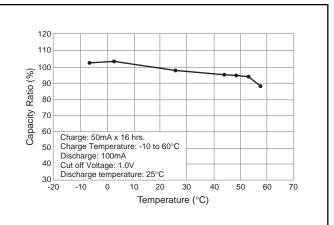
⁴ With control system

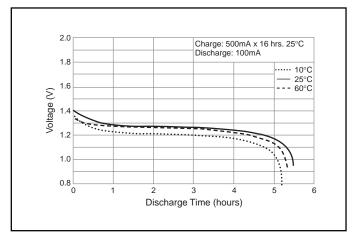
Battery performance and cycle life are strongly affected by how they are used. In order to maximize battery safety, please consult Panasonic when determining charge / discharge specs, warning label contents and unit design.

Typical Charge Characteristics



Typical Discharge Characteristics





- Note: [It] was previously expressed as [C]. [It] is an IEC standard expression for the amount of charge or discharge current and is expressed as: It(A) = Cn (Ah)/1h
 - * [It] is the reference test current in ampres
 - [Cn] is the rated capacity of the cell or battery in Ampere-hours.
 - n = the time base [hours] for which the rated capacity is declared

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