HHR-3MVE



■ Specifications

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Diameter			14.5+0/-0.7		mm
Height			50.5+0/-1.0		mm
Weight			Approx.	27	g
Nominal Voltage			1.2V		
Discharge Capacity ^{*1}		Average *2	1980mAh		
		Rated (min)	1900mAh		
Ap	prox. Internal 1 1000Hz at cha	•	25 mΩ		
Charge		Standard	190 mA × 16 hours		
		Rapid *3	MAX 1200 mA × 1.9 hours (with control system)		
Ambient Temperature	Charge	Standard	0 to +45 $^\circ\!\mathrm{C}$ (32 to 113 $^\circ\!\mathrm{F})$		3 °F)
		Rapid	0 to +40 °C (32 to 104 °F)		
	Discharge		-10 to +65 °C (14 to 149 °F)		
	Storage	< 1 year	–20 to +35 $^\circ C$ (–4 to $$ 95 $^\circ F)$		15 °F)
		< 6 months	-20 to +45 °C (-4 to 113 °F)		
		< 1 month	-20 to +55 °C (-4 to 131 °F)		

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

*2 For reference only.

*3 Need specially designed control system. Please contact Panasonic for details.

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.

 $^{*}\mbox{The}$ data in this document are for descriptive purposes only and are not intended to make or imply any guarantee or warranty.

■Typical charge characteristics



■Typical discharge characteristics





HHR-4MVE



■Typical charge characteristics



■Typical discharge characteristics





■ Specifications

Diameter			10.5+0/-0.7	mm	
Height			44.5+0/-1.0	mm	
Weight			Approx. 12	g	
Nominal Voltage			1.2V		
Discharge Capacity ^{*1}		Average *2	780 mAh		
		Rated (min)	750 mAh		
Approx. Internal Impedance at 1000Hz at charged state.			35 mΩ		
Charge		Standard	75 mA × 16 hours		
		Rapid *3	MAX 375 mA × 2.4 hours (with control system)		
Ambient Temperature	Charge	Standard	0 to +45 °C (32 to 113 °F)		
		Rapid	0 to +40 $^\circ C$ (32 to 104 $^\circ F)$		
	Discharge		-10 to +65 °C (14 to 149 °F)		
	Storage	< 1 year	-20 to +35 $^\circ C$ (-4 to 95 $^\circ F)$		
		< 6 months	-20 to +45 °C (-4 to 113 °F)		
		< 1 month	–20 to +55 $^\circ C$ (–4 to 131 $^\circ F)$		

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