

Data Sheet

Rechargeable Nickel Metal Hydride Battery

Model: GP270AAHC

Revision History

Revision	Date	Initiator	Change description
04	2014-5-26	YQ Chen	New format

Prepared by	Checked by	Approver	
RD Engineer	RD Manager	SM	
YQ Chen	Jackie Yu	Vivian Fong	
Date: 2014-5-26	Date: 2014-5-26	Date: 2014-5-26	

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CP Batteries

DATA SHEET

Type:Rechargeable Nickel Metal Hydride Cylindrical CellNominal Dimension (with Sleeve) $\Phi = 14.5mm$ H = 50.5mmApplications:Recommended discharge current 260 to 7800mANominal Voltage:1.2VCapacity:Nominal: 2600mAh Minimum: 2600mAh Typical: 2600mAh When discharged at 520mA to 1.0V at 20°CCharging Condition:260mA for 16 hrs at 20°CCharging Retention:70% of nominal capacity after cell storage at 20°C for 6 months, 50% of nominal capacity after cell storage at 20°C for 1 year When discharged at 520mA to 1.0V at 20°CFast Charge:1300mA to 2600mA (0.5 to 1C) charge termination control recommended control parameters: $-\Delta V$: 0-5mV DT/dt :0.8°C/min (0.5 to 0.9C) 0.8 - 1°C/min (1C) TCO :Service Life:~300 cycles (IEC standard)Continuous:260mA maximum current for 1 year. No conspicuous deformation and/or leakageWeight:31.0gInternal Resistance:Average 20m\Omega upon fully charged (Max.28mΩ) at 1000HzAmbient Temperature:Standard Charge : 0 to 45°C Fast Charging : 10 to 45°C Fast Charging : -20 to 50°C Storage : -20 to 35°C		-		
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$storage at 20^{\circ}C \text{ for 1year} \\ When discharged at 520mA to 1.0V at 20^{\circ}C \\ \hline \textbf{Fast Charge} : 1300mA to 2600mA (0.5 to 1C) \\ charge termination control recommended control parameters: -\Delta V : 0-5mV DT/dt : 0.8^{\circ}C/min (0.5 to 0.9C) 0.8 - 1^{\circ}C/min (1C) TCO : 45 - 50^{\circ}C Timer : 100\% nominal input (for ref. only) \\ \hline \textbf{Service Life} : ~300 cycles (IEC standard) \\ \hline \textbf{Continuous} : 260mA maximum current for 1 year. No conspicuous deformation and/or leakage \\ \hline \textbf{Weight} : 31.0g \\ \hline \textbf{Internal Resistance} : Average 20m\Omega upon fully charged (Max.28m\Omega) at 1000Hz \\ \hline \textbf{Max. Charging Voltage} : 1.5V at 260mA charging Ambient Temperature Standard Charge : 0 to 45^{\circ}C Fast Charging : 10 to 45^{\circ}C \\ \hline Fast Charging : -20 to 50^{\circ}C \\ \hline \textbf{Standard Charge : -20 to -50^{\circ}C \\ \hline \textbf{Standard Charge : -20 to -50^{\circ}C \\ \hline Standard C$				
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$\begin{array}{c} 20^\circ \mathbb{C} \\ \hline \\ \textbf{Fast Charge} & : 1300 \text{mA to } 2600 \text{mA } (0.5 \text{ to } 1\text{C}) \\ \text{charge termination control} \\ \text{recommended control parameters:} \\ -\Delta V & : 0.5 \text{mV} \\ \text{DT/dt} & : 0.8^\circ \mathbb{C}/\text{min } (0.5 \text{ to } 0.9 \mathbb{C}) \\ & 0.8 - 1^\circ \mathbb{C}/\text{min } (1\mathbb{C}) \\ \text{TCO} & : 45 - 50^\circ \mathbb{C} \\ \text{Timer} & : 100\% \text{ nominal input} \\ \text{(for ref. only)} \\ \hline \\ \textbf{Service Life} & : \sim 300 \text{ cycles (IEC standard)} \\ \hline \\ \textbf{Continuous} & : 260 \text{mA maximum current for 1 year.} \\ \textbf{Overcharge} & \text{No conspicuous deformation and/or} \\ \hline \\ \textbf{leakage} \\ \hline \\ \textbf{Weight} & : 31.0 \text{g} \\ \hline \\ \textbf{Internal Resistance} & : Average 20 \text{m}\Omega \text{ upon fully charged} \\ \text{(Max.28m}\Omega) \text{ at } 1000 \text{Hz} \\ \hline \\ \textbf{Ambient Temperature} \\ \textbf{Range} & : 1.5 \text{V at } 260 \text{mA charging} \\ \hline \\ \textbf{Ator and Charge : 0 to } 45^\circ \mathbb{C} \\ \hline \\ \hline \\ \textbf{Fast Charging : 10 to } 45^\circ \mathbb{C} \\ \hline \\ \hline \\ \textbf{Discharge : -20 to } 50^\circ \mathbb{C} \\ \hline \end{array}$				
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$\begin{array}{r} 0.8 - 1^{\circ} \mathbb{C}/\text{min (1C)} \\ \text{TCO} & : 45 - 50^{\circ} \mathbb{C} \\ \text{Timer} & : 100\% \text{ nominal input} \\ (\text{for ref. only}) \\ \text{Service Life} & : ~300 \text{ cycles (IEC standard)} \\ \text{Continuous} & : 260\text{mA maximum current for 1 year.} \\ \text{Overcharge} & \text{No conspicuous deformation and/or} \\ \text{leakage} \\ \text{Weight} & : 31.0\text{g} \\ \text{Internal Resistance} & : Average 20\text{m}\Omega \text{ upon fully charged} \\ (Max.28\text{m}\Omega) \text{ at 1000Hz} \\ \text{Max. Charging Voltage} & : 1.5\text{V at } 260\text{mA charging} \\ \text{Ambient Temperature} \\ \text{Range} & : \text{Standard Charge : 0 to } 45^{\circ} \mathbb{C} \\ \text{Fast Charging : 10 to } 45^{\circ} \mathbb{C} \\ \text{Discharge : -20 to } 50^{\circ} \mathbb{C} \\ \end{array}$				
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0				
Storage : -20 to 35°C			5	
			Storage : -20 to 35°C	



Model No.: GP270AAHC



Low Rate Discharge







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