

Product Specifications

USB Rapid Charger

Model: U421

Revision History

Revision	Date	Initiator	Change description	
00	2015-6-9	HanHai Liu	new issue	
01	2015-8-5	Andrew Mak	Revise LED indications	

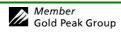
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RD Engineer	Technical Director	Global Category Marketing Manager	
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Date: 2015-6-9	Date: 2015-6-9	Date: 2015-6-9	

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 U421 rev01

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This specification governs the performance of the following USB Rapid Charger.

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This is an USB rapid charger with 4 channels, as fast as 40mins for 2000mAh AA NiMH rechargeable batteries, containing user-friendly LED indicators for battery checking.

All data specified are at room temperature 23 $^{\circ}$ C; voltage and current are tested at the point of the input and the batteries contact plates.

With multi protection:

- Over temperature protection (TCO).
- Reverse polarity protection
- Primary battery protection
- Timer cut-off
- -dV=5mv

2. RATINGS

Description	Specification			
Input Rating	DC5.0V / 1.0A - 2.1A			
Output Rating	Total number of independent channels : 4 Input : DC5.0V 2.1A			
	Per channel charging : 1xAA - DC1.4V 3600mA 2xAA - DC1.4V 1800mA 3xAA - DC1.4V 1200mA 4xAA - DC1.4V 900mA			
	1xAAA – DC1.4V 1500mA 2xAAA – DC1.4V 770mA 3xAAA – DC1.4V 510mA 4xAAA – DC1.4V 380mA			
Charging Time	Input DC5.0V 2.1A, 2000mAh AA or 800mAh AAA			
	1x(AA or AAA) - approx. 40 min. 2x(AA or AAA) - approx. 80 min. 3x(AA or AAA) - approx. 120 min. 4x(AA or AAA) - approx. 160 min.			
Trickle Charge Current	AA size : 1/10 charge current AAA size : 1/10 charge current			
Application	 Independent charging channels for 1-4 pcs of Ni-MH AA/AAA rechargeable batteries Capacity checking for the first 10 seconds after battery insertion. Bad and primary cells detection during charging 			

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LED Indication	Cor	ndition	LED Indication	LED Indicator	
		Bad/Primary battery inserted		RED (Flashing)	
	Battery Check		≥90%	GREEN	
	(First 10	Remain battery	50-90%	AMBER	
	Seconds)	capacity	10-50%	AMBER (Flashing)	
			<10%	RED	
	No ba		ery inserted	OFF	
	Battery Charging Stage	Charging in progress		GREEN (Flashing)	
		When charging is finished, then will switch to trickle charge		GREEN	
Battery Leakage Current	0.5mA max.				
Termination Method	 -dV Primary & bad battery detection Temperature protection : 55±5°C Safety timer: 1xCell: 90min. 2xCell: 180min. 3xCell: 270min. 4xCell: 360min. 				
Operation Temperature	0~40 ℃				
Storage Temperature	-25~60 ℃				
MTBF	30,000 hours at room temperature 25 $^\circ\!\!\mathbb{C}$				
Compliance	RoHS				

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Document Number: U421 Revision: 01 3. CONFIGURATIONS, DIMENSIONS AND MARKING

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Dimensions (L x W x T): 900 x 698 x 230mm GP [BATTERY] GP ReCyko⁺ 6 5 Δ No. Parts Material Finish Substrate Color Remarks Color 1 Front Cabinet N/A Plastic N/A Anodizing Black Colour refer to Colour Chip #00023 2 Rear Cabinet Plastic N/A N/A Anodizing Black Colour refer to Colour Chip #00023 3 Rating Label N/A Silkscreen N/A Pantone Cool Grey 11C Micro USB Jack 4 Standard Parts N/A Black in Colour N/A 5 Input N/A N/A Pantone BlackC Silkscreen 6 Top and Bottom Endcap Plastic Matt N/A Pantone 369C N/A Silkscreen N/A Pantone 369C 7 GP Logo

4. WARRANTY

One year limited warranty against workmanship and material defects.

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Document Number: U421 5. CAUTIONS

- 1. To reduce the risk of injury, it is recommended that GP Ni-MH rechargeable batteries are used.
- 2. Do not use non-rechargeable batteries.
- 3. Do not use the charger in humid conditions.
- 4. Do not use the charger if it has a damaged plug.
- 5. Do not use the charger after it has been dropped or damaged.
- 6. Do not open/disassemble the charger.
- 7. Unplug the charger before maintenance or cleaning.
- 8. Do not use the charger in direct sunlight.
- 9. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- 10. Children should not play with the appliance.
- 11. Cleaning and user maintenance should not be made by children without supervision.