

Control No.	EDBD160214-002
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**Panasonic**

14.Feb.2016

## Specification

Product Name : Ni-MH Battery Charger

Model Number : BQ-CC50E BQ-CC50U

Receipt Signature

Panasonic Corporation  
Automotive & Industrial Systems Company  
Energy Device Business Division

Approved	Drawn
M. Shirakawa	Y. Hashimoto

Panasonic Corporation



Ni-MH Charger Specification		Approved	Drawn																																														
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1. Model Name/Number	Ni-MH Battery Charger																																																
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1-2 Model Number	BQ-CC50																																																
2. Scope	<p>This product is a battery charger for AA and AAA size Ni-MH batteries.</p> <p>This battery charger can charge up to two AA size and two AAA size.</p> <p>And this charger has a charging indication two LEDs and a protection timer.</p>																																																
3. Applicable Standard	<ul style="list-style-type: none"> <li>· CB (IEC60335-1, IEC60335-2-29)</li> <li>· EMF (EN62233:2008)</li> <li>· EMC(EN55014-1,-2) (IEC61000-3-2,3) (IEC61000-4-2,3,4,5,6,11)</li> <li>· CE-EMC</li> <li>· CE-LVD</li> <li>· CE-RoHS</li> <li>· Panasonic standard PCSS/MIS</li> <li>· Panasonic Group "Chemical Substances Management Rank Guidelines"</li> </ul>																																																
4. Appearance, Size, etc.	Approx. 50 × 121 × 27.5 mm ( except AC plug )																																																
4-1. Appearance, Size	Approx. 86 g (BQ-CC50E), 96g(BQ-CC50U)																																																
4-2. Mass	Flame retardant of case and PCB material should be UL94V-0 or higher.																																																
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5. Applicable battery, Charging time	<table border="1"> <thead> <tr> <th rowspan="2">Type</th> <th rowspan="2">Size</th> <th rowspan="2">Battery number (Example)</th> <th rowspan="2">Capacity (Minimum)</th> <th>Charging time (Approximately)</th> </tr> <tr> <th>1,2 pcs</th> </tr> </thead> <tbody> <tr> <td rowspan="6">Ni-MH</td> <td rowspan="6">#3 AA</td> <td>BK-3HLB</td> <td>2400 ~</td> <td rowspan="2">Approx. 12.5 hour</td> </tr> <tr> <td>BK-3HCC</td> <td>2500mAh</td> </tr> <tr> <td>BK-3MLE</td> <td>1900 ~</td> <td rowspan="2">Approx. 10 hour</td> </tr> <tr> <td>BK-3MCC</td> <td>2000mAh</td> </tr> <tr> <td>BK-3LLE</td> <td>950 ~</td> <td rowspan="2">Approx. 5 hour</td> </tr> <tr> <td>BK-3LCC</td> <td>1000mAh</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th rowspan="2">Type</th> <th rowspan="2">Size</th> <th rowspan="2">Battery number (Example)</th> <th rowspan="2">Capacity (Minimum)</th> <th>Charging time (Approximately)</th> </tr> <tr> <th>1,2 pcs</th> </tr> </thead> <tbody> <tr> <td rowspan="6">Ni-MH</td> <td rowspan="6">#4 AAA</td> <td>BK-4HLB</td> <td>900 ~</td> <td rowspan="2">Approx. 11.9 hour</td> </tr> <tr> <td>BK-4HCC</td> <td>950mAh</td> </tr> <tr> <td>BK-4MLE</td> <td>750 ~</td> <td rowspan="2">Approx. 10 hour</td> </tr> <tr> <td>BK-4MCC</td> <td>800mAh</td> </tr> <tr> <td>BK-4LLE</td> <td>550 ~</td> <td rowspan="2">Approx. 8.2 hour</td> </tr> <tr> <td>BK-4LCC</td> <td>650mAh</td> </tr> </tbody> </table>			Type	Size	Battery number (Example)	Capacity (Minimum)	Charging time (Approximately)	1,2 pcs	Ni-MH	#3 AA	BK-3HLB	2400 ~	Approx. 12.5 hour	BK-3HCC	2500mAh	BK-3MLE	1900 ~	Approx. 10 hour	BK-3MCC	2000mAh	BK-3LLE	950 ~	Approx. 5 hour	BK-3LCC	1000mAh	Type	Size	Battery number (Example)	Capacity (Minimum)	Charging time (Approximately)	1,2 pcs	Ni-MH	#4 AAA	BK-4HLB	900 ~	Approx. 11.9 hour	BK-4HCC	950mAh	BK-4MLE	750 ~	Approx. 10 hour	BK-4MCC	800mAh	BK-4LLE	550 ~	Approx. 8.2 hour	BK-4LCC	650mAh
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6. Electric characteristic	Characteristics are at input AC240V 50Hz and at ambient temperature of $25 \pm 5^{\circ}\text{C}$ unless otherwise specified.									
6-1. Input voltage range frequency	Input voltage range : AC 100~240V Input power frequency : 50/60Hz At above input conditions, there shall be no abnormalities.									
6-2. Charging current	Charging current, at battery voltage 1.5V, shall be as follows. <table border="1" data-bbox="544 618 1353 719"> <thead> <tr> <th>Size</th> <th>Charging current</th> </tr> </thead> <tbody> <tr> <td>AA</td> <td>Approx. 200mA</td> </tr> <tr> <td>AAA</td> <td>Approx. 80mA</td> </tr> </tbody> </table>	Size	Charging current	AA	Approx. 200mA	AAA	Approx. 80mA			
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6-3. Charging timer	Charging current is stopped by timer. Timer time shall be as follows. <table border="1" data-bbox="544 790 1353 846"> <thead> <tr> <th>Timer time</th> <th>Approx. 13 hour</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table>	Timer time	Approx. 13 hour							
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6-4. Indication	Following charging status are shown by 2 piece green color LED. And easily discernible under 300 lx conditions. <table border="1" data-bbox="544 949 1353 1055"> <thead> <tr> <th>Charging</th> <th>Consecutive ON</th> </tr> </thead> <tbody> <tr> <td>Finish</td> <td>OFF</td> </tr> <tr> <td>Abnormal battery</td> <td>FLASH(keeping)</td> </tr> </tbody> </table>	Charging	Consecutive ON	Finish	OFF	Abnormal battery	FLASH(keeping)			
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6-5. Input wattage and current	The input wattage and current shall be as follows at 2 AA charging, battery voltage 1.5V, and at no load. <table border="1" data-bbox="544 1167 1362 1301"> <thead> <tr> <th>Output</th> <th>Input wattage</th> <th>Input current</th> </tr> </thead> <tbody> <tr> <td>AA x 2 pieces</td> <td>Approx. 2 W(240V)</td> <td>Approx. 37mA (100V) Approx. 21mA (240V)</td> </tr> <tr> <td>No Load</td> <td>Less than 0.4W</td> <td>-----</td> </tr> </tbody> </table>	Output	Input wattage	Input current	AA x 2 pieces	Approx. 2 W(240V)	Approx. 37mA (100V) Approx. 21mA (240V)	No Load	Less than 0.4W	-----
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7. Operating Temperature Range	Operating Temperature Range : $0 \sim 40^{\circ}\text{C}$									
8. Storing Temperature and Humidity Range	Operating Temperature Range : $-20 \sim 50^{\circ}\text{C}$ Storing Humidity Range : $0 \sim 60\% \text{RH}$ (These conditions are applied to charger unit and packing materials.)									
9. Country of Origin	China									
10. Efforts for Environment	The unit shall comply with RoHS regulation.									