



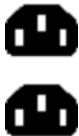
APC Back-UPS 650, 230V  
Part Number: BK650EI



[Technical Specifications](#)   [Product Overview](#)   [Documentation](#)   [Software & Firmware](#)   [Options](#)   [Ratings and Reviews](#)

Output

Output Power Capacity	400 Watts / 650 VA
Max Configurable Power	400 Watts / 650 VA
Nominal Output Voltage	230V
Output Frequency (sync to mains)	47 - 63 Hz
Topology	Standby
Output Connections	(1) IEC 320 C13 (Surge Protection)  (3) IEC 320 C13 (Battery Backup)  (2) IEC Jumpers (Surge Protection)

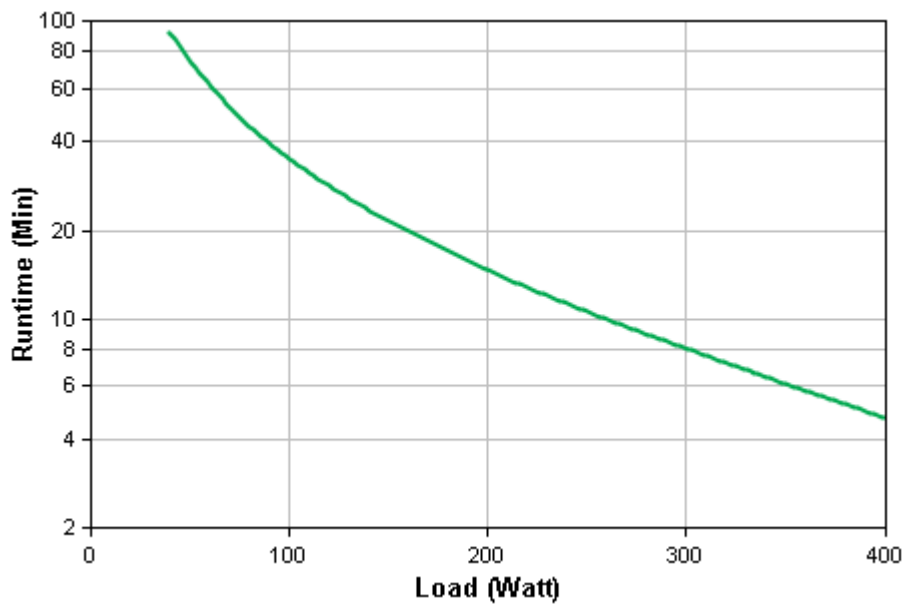


Input

Nominal Input Voltage	230V
Input Frequency	50/60 Hz +/- 3 Hz (auto sensing)
Input Connections	IEC-320 C14
Cord Length	2 meters
Input voltage range for main operations	180 - 266V
Input voltage adjustable range for mains operation	160 - 286V
Maximum Input Current	7A
Input Breaker Capacity	7 A

Batteries & Runtime

Battery Type	Maintenance-free sealed Lead-Acid battery with suspended electrolyte : leakproof
Typical recharge time	8 hour(s)
Replacement Battery	<a href="#">RBC17</a>
RBC™ Quantity	1
Runtime Graph	



Hover over the line on the graph above to view the runtime at any desired load

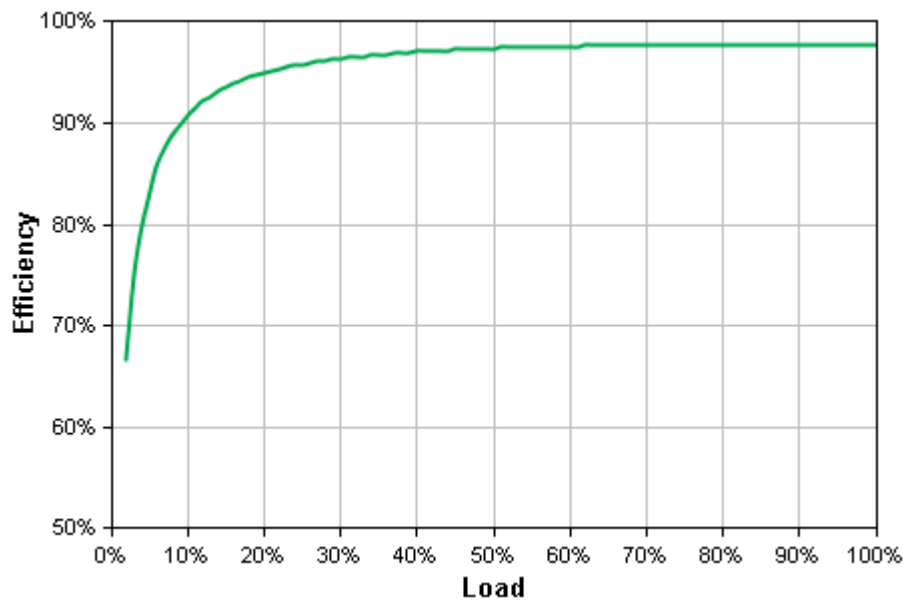
This graph is based on actual measured runtime data. All measurements were taken with new, fully charged batteries and a balanced resistive load (PF = 1.0). Actual runtimes may vary from the values of this graph. Actual runtimes are dependent on several variables including battery age, battery charge level, environmental conditions and characteristics of the connected load.

[View Enlarged Graph](#)

[View Runtime Chart](#)

Energy Use/Efficiency

Load	Efficiency
25%	95.8%
50%	97.4%
75%	97.8%
100%	97.8%



*Hover over the line on the graph above to view the efficiency at any desired load*

Curve fit to measured efficiency data. All measurements taken in normal operating mode, at typical environmental conditions, with nominal electrical input and balanced resistive load (PF = 1.0) output.

[View Enlarged Graph](#)

## Communications & Management

Interface Port(s)	Optional Simple Signalling RS232 cable, USB
Control panel	LED status display with On Line : On Battery : Replace Battery and Overload indicators
Audible Alarm	Alarm when on battery : distinctive low battery alarm : overload continuous tone alarm

## Surge Protection and Filtering

Surge energy rating	310 Joules
Data Line Protection	Analog phone line for phone/fax/modem/DSL (RJ-45 connector)

## Physical

Maximum Height	165.00 mm
Maximum Width	91.00 mm
Maximum Depth	284.00 mm
Net Weight	6.03 KG
Shipping Weight	7.31 KG
Shipping Height	494.00 mm
Shipping Width	185.00 mm
Shipping Depth	415.00 mm
Master Carton Units	1.00
Master Carton Weight	16.09 lbs.
Color	Beige
SCC Codes	1073130421978 8
Units per Pallet	48.00

## Environmental

Operating Environment	0 - 40 °C
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Operating Relative Humidity	5 - 95%
Operating Elevation	0-3000 meters
Storage Temperature	-15 - 45 °C
Storage Relative Humidity	5 - 95%
Storage Elevation	0-15000 meters
Audible noise at 1 meter from surface of unit	45.00 dBA
<b>Conformance</b>	
Regulatory Approvals	A-tick, C-tick, CE, GOST, NEMKO
Standard Warranty	2 years repair or replace
<b>Sustainable Offer Status</b>	
RoHS	Compliant

\*\*The time to recharge to 90% of full battery capacity following a discharge to shutdown using a load rated for 1/2 the full load rating of the UPS.