



PTI DESIGN SPECIFICATION

PT01609_DS_3
DATE: 01-13-2014

PTI Part Number: PT01609
(Advantage Technology Part Number: BATTERY GENII)

Quality Manufacturing Standards	Quality System	ISO9001:2008
	Soldering	IPC-A-610 Class 2 Visual Acceptance Criteria
	Wire and Cable	IPC-WHMA-A-620 Class 2 Visual Acceptance Criteria

Agency Standards	Medical Class	N/A
	Agency Approvals	No Agency approvals on pack

Regulatory Compliance¹	Environmental	RoHS: Compliant by exemption WEEE: Label marking is compliant EU Battery Directive: Label marking is compliant
	Special Conditions	N/A
	Other	N/A

Hazardous Material Transportation Criteria²	Critical Parameter	62.64Wh Lithium Ion pack
	UNDoT Certification	UNT6LIID03
	Domestic Shipping	Consult carrier for specific requirements
	International Shipping	IATA Marking: Pack label is compliant Consult carrier for specific requirements Consult controlling authorities at destination point
	Other	N/A

Cell Parameters	Chemistry	Lithium Ion
	Manufacturer/Model	Panasonic NCR18650
	Other	N/A

Standard Operating Procedures	100% Voltage Test	Voltage under load greater than the recommended end-of-discharge voltage for the pack
	100% Thermistor Test	Resistance between 75% and 145% of 25°C Rating

¹ Compliance statements are based on regulations on the date of this document; regulations are subject to change. Other export, import and marketing restrictions may apply.

² Compliance is based on UNDoT, CFR and IATA regulations on the date of this document; regulations are subject to change.



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Standard Assembly Materials	Tape	Scotch 600 or equivalent as needed Kapton or equivalent as needed Flame retardant tape as needed
	Glue	Cyanoacrylate as needed
	Cell Connections	Resistance welded nickel tab
	Insulation	Fishpaper or similar material as needed Polyolefin shrink tubing as needed

Pack Electrical Specifications	Nominal Voltage	10.80V
	Nominal Capacity	5.8Ah Typical
	Continuous Discharge	3.5A (Limited by Protection Circuit)
	Peak Discharge	3.5A (Limited by Protection Circuit)
	End of Discharge	7.50V
	Other	N/A

Pack Physical Specifications	Configuration	3S2P
	Cover / Housing	Semi-rigid PVC, UL 224 VW-1 (Black)
	Typical Dimensions	111.30mm x 18.80mm x 69.14mm (4.382" x 0.740" x 2.722")
	Other	N/A

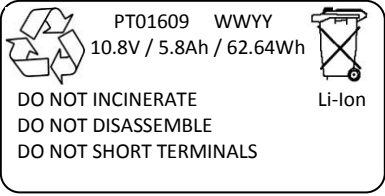
Pack Protection and Control	Breaker	N/A
	Fuse	10K NTC
	Thermistor	N/A
	PTC	N/A
	PCM	VC3027 (or equivalent)
	SMBus	N/A
	Fuel Gauge	N/A
	Other	N/A

Charging Conditions	Max Charge Current	2.0A
	Max Charge Voltage	12.6V
	Termination Method	CC/CV (100mA taper cut-off)
	Other	N/A

Pack Temperature Constraints	Charging Temp	10°C to 45°C
	Discharging Temp	-20°C to 60°C

Pack Termination	Housing Part #	Molex 09-50-3031
	Harness Length	63.50mm +/- 6.35mm (2.500" +/- 0.250")
	Other	08-50-0105 is an approved alternate for 08-50-0106

Pin	Part Number	Wire Color	Wire Spec	Function
1	08-50-0106	Red	20AWG UL1007	Power +
2	08-50-0106	Black	20AWG UL1007	Power -
3	08-50-0106	White	24AWG UL1007	Thermistor (lead 1)

Label Specifications	Size	2.0" x 1.0"
	Material	Plain White Label
	Serial number format	N/A
	Date Code Format	WWYY
	Bar Code Format	N/A
	Label Content	
Other	N/A	

REV	DESCRIPTION	DATE
1	Original Design Specifications	01-15-2013
2	Change the Label Size	04-09-2013
3	Add 08-50-0105 as an approved alternate for 08-50-0106	01-13-2014

