

PEP Testing Laboratory

12-3FI, No. 27-1, Lane 169, Kang-Ning St., Hsi-Chih,
Taipei Hsien, Taiwan, R. O. C.

TEL: 886-2-26922097 FAX: 886-2-26956236



REPORT NO. :E930528-1

NVLAP LAB CODE: 200097-0

REVISION

REPORT NO. E930528-1

INSPECTION, TEST, AND EVALUATION

OF THE Universal Notebook Battery

RENDERED TO

AMERICAN POWER CONVERSION CORPORATION

The following revisions have been made to Report No. E930528 for
Universal Notebook Battery

<u>DATE</u>	<u>PAGE</u>	<u>DESCRIPTION</u>
		The Original Model No. (UPB80, UPB 80i)
OCT. 06, 2004		Add Model No. (UPB80i)
OCT. 06, 2004	3 - 9	Test Model No. (UPB80i)
OCT. 06, 2004	10 - 13	Photo Model No. (UPB80i)

PLACE THIS PAGE AT FRONT OF YOUR REPORT.

Approved By : _____

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EUT DECLARATION FOR C-tick PERMISSIVE CHANGE

We hereby declare that both of the major electrical design and construction of this requested model: UPB80i is identical to the original models: UPB80 and UPB 80i listed in PEP Report No. E930528 except that they are different in data cable. From technical point of view, we verified EUT by radiated emission test. We attached UPB80i in original report as additional model.

Applicant : AMERICAN POWER CONVERSION CORPORATION

Address : 132 FAIRGROUNDS ROAD WEST KINGSTON, RI 02892

Signature : _____
KY WANG

Date : / /

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Support Equipment Used

1. DC Power Supply

Manufacturer : SCHMIDT

Model Number : EPS-3030SD (DC-0-30V)

2. Resistance Load

Radiated Emissions Test Setup Photos

CHARGE MODE

< FRONT VIEW >



< REAR VIEW >



DISCHARGE MODE

< FRONT VIEW >



< REAR VIEW >



Radiated Emissions Test Data

Model No. : UPB80i
Frequency range : 30MHz to 1GHz **Detector** : Quasi-Peak Value
Frequency range : above 1GHz **Detector** : Quasi-Peak/Average Value
Temperature : 27° C **Humidity** : 49 %
Memo : CHARGE MODE

Antenna polarization : HORIZONTAL ; **Test distance** : 10m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Azimuth (°angle)	Antenna High(m)
45.333	17.44	-12.56	30.00	25.32	11.01	0.61	19.50	210.0	4.0
86.000	15.97	-14.03	30.00	24.69	9.66	0.98	19.36	154.0	4.0
109.311	15.00	-15.00	30.00	21.80	11.48	1.05	19.33	126.0	4.0
124.800	24.17	- 5.83	30.00	30.05	12.53	1.10	19.51	56.0	4.0
134.822	26.76	- 3.24	30.00	30.99	13.97	1.10	19.30	324.0	4.0
152.978	26.80	- 3.20	30.00	28.40	16.67	1.30	19.57	179.0	4.0

Note :

1. Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

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Model No. : UPB80i
Frequency range : 30MHz to 1GHz **Detector : Quasi-Peak Value**
Frequency range : above 1GHz **Detector : Quasi-Peak/Average Value**
Temperature : 27° C **Humidity : 49 %**
Memo : CHARGE MODE

Antenna polarization : VERTICAL ; Test distance : 10m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Azimuth (°angle)	Antenna High(m)
86.444	16.68	-13.32	30.00	25.34	9.73	0.99	19.38	112.0	1.0
108.889	18.89	-11.11	30.00	25.70	11.48	1.05	19.34	89.0	1.0
123.822	23.48	- 6.52	30.00	29.46	12.44	1.10	19.52	210.0	1.0
129.822	17.21	-12.79	30.00	22.38	13.05	1.10	19.32	154.0	1.0
138.344	22.64	- 7.36	30.00	26.39	14.57	1.10	19.42	286.0	1.0
149.522	20.02	- 9.98	30.00	21.76	16.54	1.29	19.57	30.0	1.0

Note :

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Model No. : UPB80i
Frequency range : 30MHz to 1GHz **Detector : Quasi-Peak Value**
Frequency range : above 1GHz **Detector : Quasi-Peak/Average Value**
Temperature : 27° C **Humidity : 49 %**
Memo : DISCHARGE MODE

Antenna polarization : HORIZONTAL ; Test distance : 10m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Azimuth (°angle)	Antenna High(m)
86.472	26.02	- 3.98	30.00	34.68	9.73	0.99	19.38	246.0	4.0
117.547	25.60	- 4.40	30.00	32.15	11.88	1.09	19.52	186.0	4.0
122.762	25.72	- 4.28	30.00	31.88	12.29	1.10	19.55	152.0	4.0
138.318	21.96	- 8.04	30.00	25.71	14.57	1.10	19.42	265.0	4.0
152.089	20.83	- 9.17	30.00	22.46	16.65	1.30	19.58	148.0	4.0
165.356	25.96	- 4.04	30.00	28.20	15.83	1.33	19.40	95.0	4.0
172.244	19.55	-10.45	30.00	22.94	14.57	1.38	19.34	174.0	4.0

Note :

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Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Azimuth (°angle)	Antenna High(m)
86.378	18.53	-11.47	30.00	27.19	9.73	0.99	19.38	114.0	1.0
128.044	20.33	- 9.67	30.00	25.76	12.86	1.10	19.39	85.0	1.0
138.044	21.53	- 8.47	30.00	25.28	14.57	1.10	19.42	196.0	1.0
153.911	15.61	-14.39	30.00	17.18	16.69	1.30	19.56	214.0	1.0
165.956	14.51	-15.49	30.00	16.84	15.72	1.34	19.39	115.0	1.0
173.356	16.44	-13.56	30.00	20.03	14.38	1.39	19.36	210.0	1.0

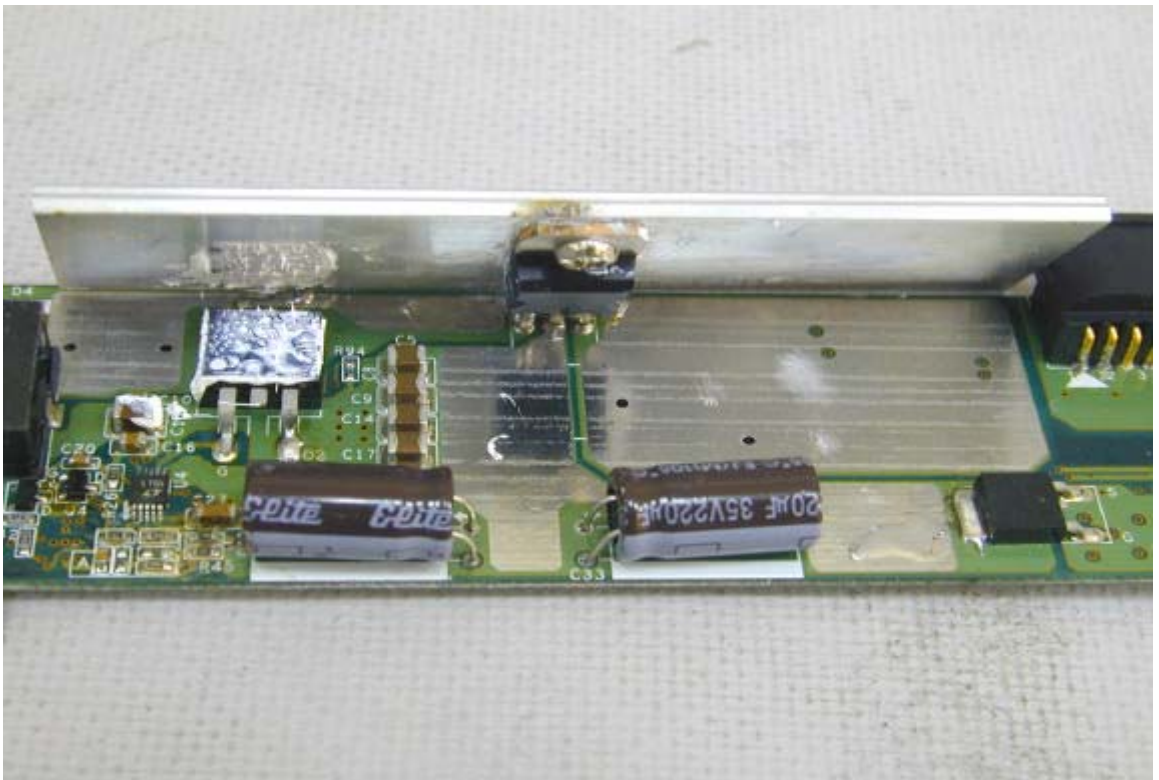
Note :

1. Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

EUT Photographs

MODEL NO. : UPB80i





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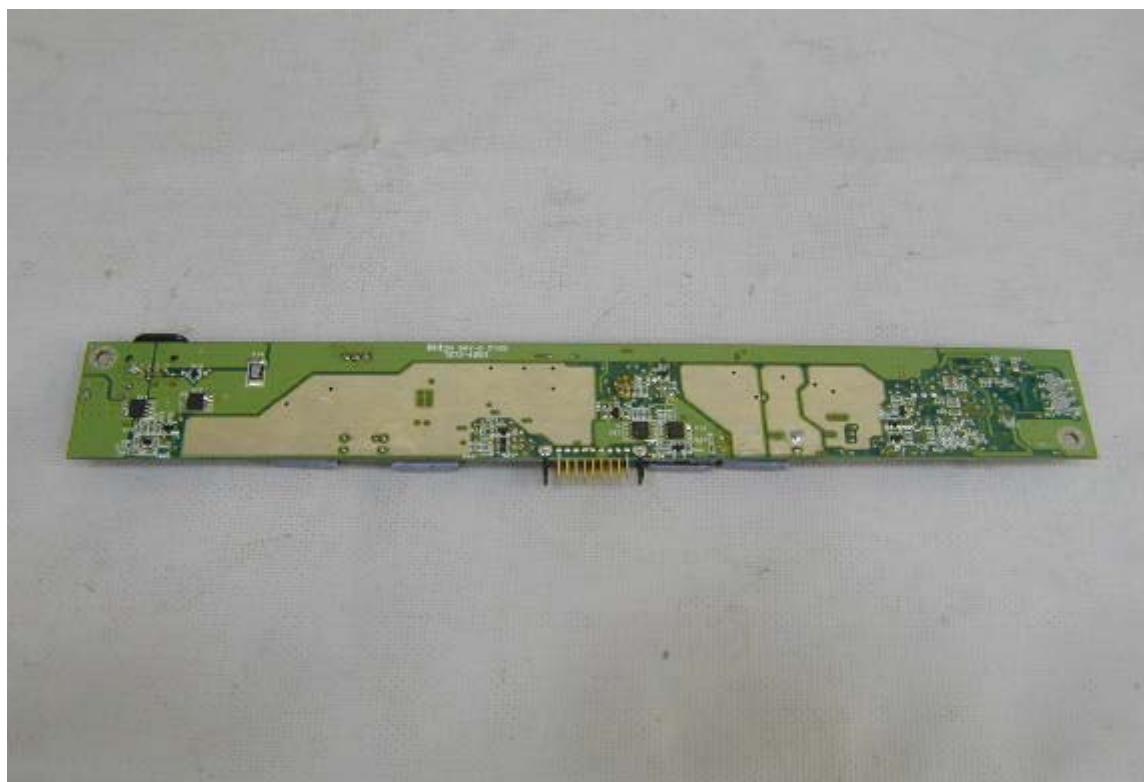
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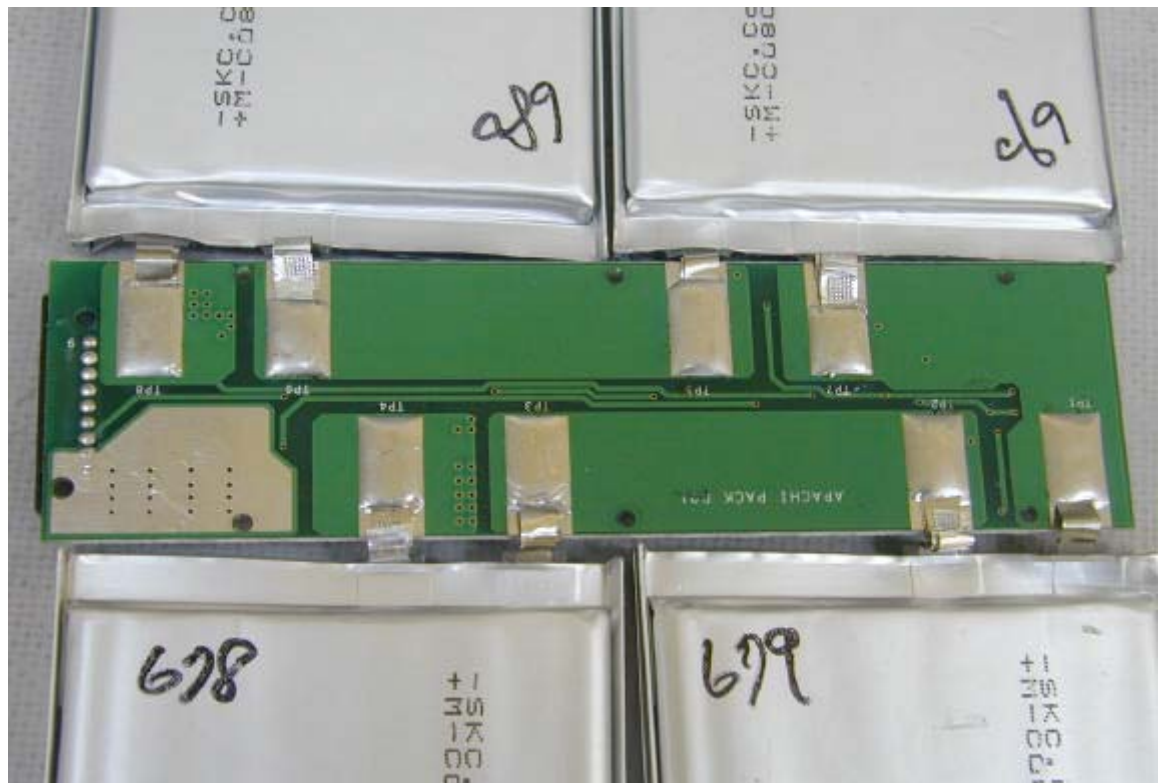
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CERTIFICATE OF COMPLIANCE

APPLICANT : AMERICAN POWER CONVERSION CORPORATION

ADDRESS : 132 FAIRGROUNDS ROAD WEST KINGSTON, RI 02892

PRODUCT NAME : Universal Notebook Battery

MODEL NO. : UPB80, UPB 80i, UPB80i

REPORT NO. : E930528-1

THIS IS TO CERTIFY, ON THE BASIS OF THE TESTS UNDERTAKEN,
THE SUBMITTED SAMPLES OF THE ABOVE ITEM IS CONSIDERED TO
COMPLY WITH :

AS/NZS CISPR 22: 2002

SIGNED FOR AND ON BEHALF OF
PEP TESTING LABORATORY

Peter Kao



NVLAP[®]

NVLAP LAB CODE: 200097-0

Peter Kao
President, NVLAP Signatory

Date : OCT. 06, 2004