

# Dr. Power Corporation





#### Contents

- 1. Background
- 2. Action Group Profile
- 3. The Best Business Partner
- 4. R&D
- 5. Quality Assurance
- 6. Certificate
- 7. Manufacturer
- 8. Products



### 1. Background

- Date of Foundation: 2003
- HQ: Taipei, Taiwan
- Capital: USD 1,500,000
- Employee: 65 (Factory: 45; Office: 20)
- Core Values: Integrity / Quality / Team
   Work/Continuous Improvement/Customized
   service/Customer Satisfaction



### 2. Action Group Profile

**Action Group** 



LJ Device Co., Ltd. - since 1995

**Electrical Component Procurements / Outsourcing** 

Link: <a href="http://ljdevice.com.tw/">http://ljdevice.com.tw/</a>



**Dr. Power Corporation. - since 2003** 

**Battery Pack** 

Micro Gas meter device

Micro Water meter device

Link: <a href="http://battery9999.com/">http://battery9999.com/</a>



**Action International, Ltd. - since 2007** 

Representative office in China



Japone Technology Inc. - since 1992

**Manufacture** 



#### 3. The Best Business Partner

- 1. Industrial Technology Research Institute
- 2. Freestyle Technology Co.
- 3. Weltrend Semiconductor, Inc.
- 4. TOCAD Energy Co., Ltd.
- 5. CHT (Chunghwa Telecom)
- 6. DT Research, Inc.



#### 4. R&D

- R&D is the foundation of Dr. Power, More than 10 engineers specializing in electronic products.
- Over 12% of annual revenue is devoted to product research and development.



### 5. Quality Assurance

#### •Quality Assurance :

- © Customer satisfaction
- Certificate:

  - UL certified quality assurer
  - TUV certified quality assurer
  - © EHS



#### 6. Certificate-ISO 9001: 2015/UL/TUV

**Action Group** 







#### Manufactume's Declaration persub-clause 4.2.5 of IECEE 02:

The application for obtaining a CB Test Certificate includes more than one fectory location and a declaration from the Manufacturer stating that the

sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.

When differences exist; they shall be identified in the General product information section.

#### Name and address of factory (ies)......

Japone Technology (nc. (ID No.: 97532) 2F, No258, Xingzhong Rd., Tamsui Dist., 25169 New Taipei City, TAIWAN

#### Report No. < 081-170209-100>

This modification report is as below to:

. Revised label drawing for client requirements, see page 4 and attachment photo for details.

Revised maximum ambient temperature of discharge condition from 60 °C to 50 °C, see below for details.

No tests were deemed necessary for this modification

#### General product information:

This equipment is a Rechargeable Li-ion Battery for use in the portable applications.

The maximum ambient temperature specified as 45 °C for charging and 50 °C for discharging conditions.

#### Details information of the Rechargeable Li-ion Battery are as follows:

Product name	Rechargeable Li-ion Battery	
Type/model	ACC-006-317E (1ICP11/34/50-4)	
Battery Cell Configuration	154P	
Nominal voltage (Vdc)	3.6	
Nominal capacity (mAh (Wh)	8800 mAh, 31.68 Wh	
Maximum Charge Voltage (Vdc)	4.2	
Oprimum charge current (A)	2.8	
Maximum discharge current (A)	4	
End voltage (Vdc)	2.5	
Weight (kg)	Approx. 0.203 (max.)	

The final evaluation of the battery must be conducted in the end product for which the battery will be used

TUV SUC Asia ttd. Taiwan Branch 1F, No. 37, Sep. 2, Zhongyang S, Rd., Ratto District. Taiwa City, 11279, Taiwan Regart reference No.: 081-170209-100 ACC-009-317E-M1-DOC

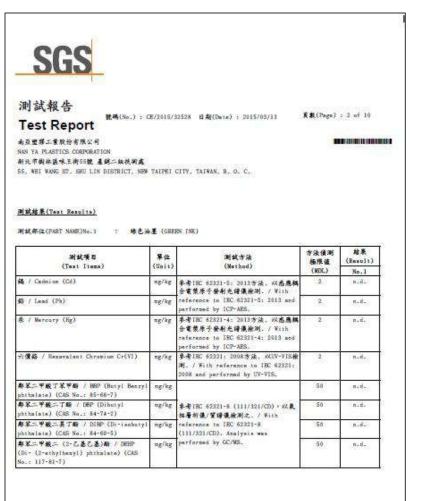
Test Report EG021316



#### 6. Certificate-RoHS

#### **Action Group**





#### Full lead free/RoHS process



# 7. Manufacturer-EMS Capability

- Capacity: 1KK units of PCB/month
- Full lead free/RoHS process









Action Group

# 7. Manufacturer-EMS Capability

# Capacity: 1KK units of PCB/month

Full lead free/RoHS process









#### 7. Manufacturer-SMT Flow

**Action Group** 

**SMT** stock preparation



Bare board loading



Solder paste printing



Solder paste store in a cool dry cabinet

Pick & place speed machine

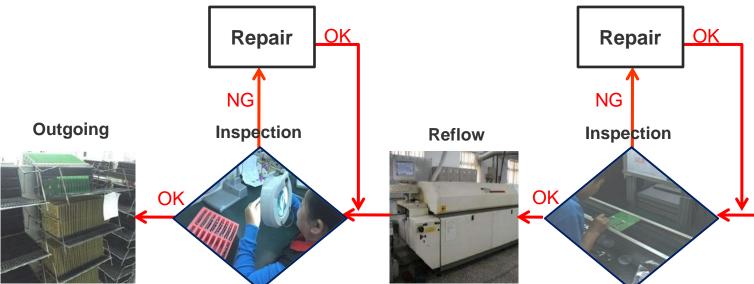


Pick & place general machine



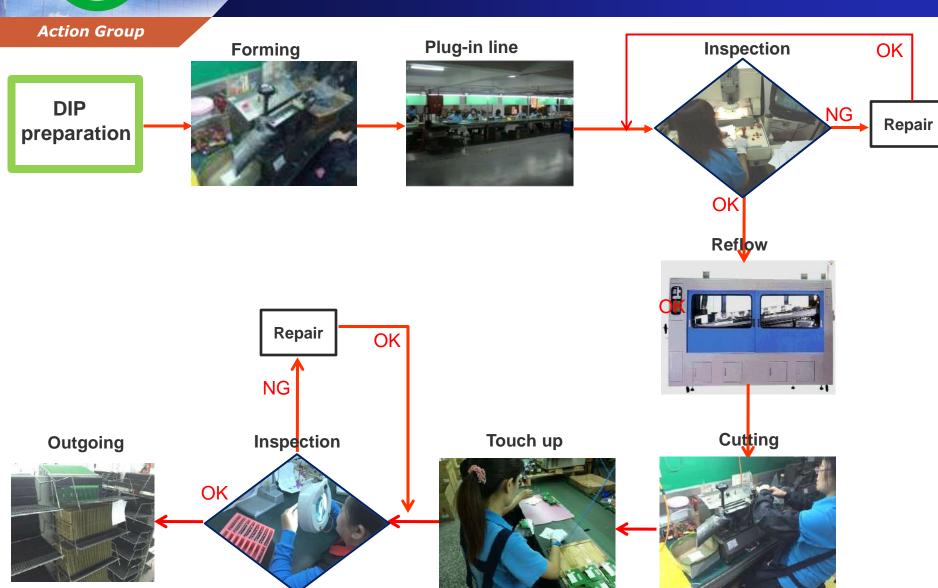
Pick & place general machine







#### 7. Manufacturer-DIP Flow





### 7. Manufacturer-Test Equipments

CVE 64CH:
 Learning Equipment

- BAT-730
   Learning Equipment
- BAT-620/640:Battery Testing









### 7. Manufacturer-Production Equipments

**Action Group** 

SC-TZ02:
 Automatic Equipment
 18650 Cell Insulator Ring

SC-TQKZ10:
 Automatic Equipment
 Cell Matching







**Action Group** 

### 7. Manufacturer-Production Equipments

ST-SWD-260220:
 Automatic Equipment
 Spot Welding

XRW-M20:
 Automatic Equipment
 Laser Engraving







#### 8. Products - Customization

1S1P Li-ion Battery Pack



2S1P Li-ion Battery Pack





• 3S2P Li-ion Battery Pack



• 3S3P Li-ion Battery Pack





3S3P Li-ion Battery Pack

13S3P Li-ion Battery Pack





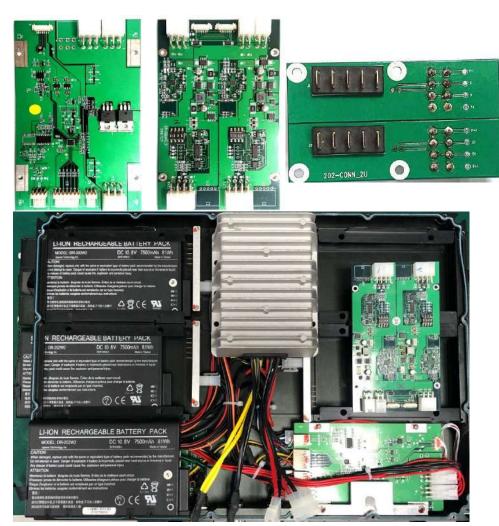
Action Group

 Battery Charger Dock (DR-202 Series)





 Integrated Solution for Multiple Batteries (Control/ Recharge / Connection)





8S1P Li-iron Battery Pack



1U Battery Pack





**Action Group** 

4S3P Li-ion Battery Pack





**Action Group** 

4S6P Li-ion Battery Pack







 14S10P Li-ion Battery Pack (Go-Kart)





 14S10P Li-ion Battery Pack (Go-Kart)





14S42P Li-ion Battery Pack

14S42P Li-ion Battery Pack









DV 6000	Li-ion 10.8V 9600mAh
Replacement Laptop Battery	HP DV2000, DV6000 , Compaq V3000, V6000, F series
Replace battery part number:	432307-001 EV088AA EV089AA HSTNN-IB31 HSTNN-IB32, HSTNN-LB31 HSTNN-Q21C HSTNN- W20C HSTNN-DB32, HSTNN-DB31 HSTNN-OB31 411462-141 411462-251, 411462-261 411462-361 411462- 321 411462-421 411462-442, 411463-141 411464-141 417066-001 417067-001 432306- 001

Т6оН	Li-ion 11.1V 7200mAh	
Replacement Laptop Battery	IBM/Lenovo ThinkPad R6o,R6oe,T6o,T6op Series	
Replace battery part number:	40Y6797 40Y7659 40Y7660 40Y7699 40Y7700 40Y7710 40Y7711 92P1104 92P1106 92P1109 92P1110 92P1114 92P1153 92P1155 92P1157 92P1159	





SP6100	Li-ion 10.8V 4800mAh
Replacement Laptop Battery	Toshiba Tecra, 9000 & Satellite Pro6000 in Black colour, Portege M200 Tecra TE2000, TE2100 M4 series
Replace battery part number:	PA-3191U-3BRS PA3084U-1BAS PA3084U-1BRS PA3128U-1BRS PA3176U-1BAS PA3191-2BAS PA3191U-1BAS PA3191U-1BRS PA3191U-2BRS PA3191U-3BAS PA3191U-3BRS PA3191U-4BAS PA3191U-4BRS PA3191U-5BRS

CF-50	Li-ion 11.1V 6600mAh
Replacement Laptop Battery	PANASONIC TOUGHBOOK CF-28, SERIES CF-48 SERIES, CF-50 SERIES
Replace battery part number:	CF-VZSU18 CF-VZSU18A CF- VZSU18AU CF-VZSU18AW CF-VZSU18B CF-VZSU18BU CF- VZSU18W





l.	М140	Li-ion 11.1V 5200mAh		
	Replacement Laptop Battery	Dell Inspiron 630m 640m, E1405 PP19L XPS M140		
:	Replace battery part number:	312-0450 310-0450 DH074 UG679 312-0451 RC107 Y9943		



D620	Li-ion 11.1V 5200mAh
Replacement Laptop Battery	Dell Latitude D620 D630, Precision M2300 series
Replace battery part number:	312-0384 451-10299 JD634 JD648 PD685 RC126 PC764, TC030 310-9081





Item	Brand	Model	Voltage/Capacity	Pit Model
5	HP	HSTNN-IB3I	11.1V-4400mAh	ProBook 4230s
6	HP	HSTNN-DB2L	10.8V-4400mAh	EliteBook 2560p EliteBook 2570P
7	HP	HSTNN-IB2P	14.8V-4400/ 5200mAh Li-ion	HP:EliteBook 8560w Mobile Workstation EliteBook 8570w Mobile Workstation EliteBook 8760 Workstation EliteBook 8770w Mobile Workstation
8	HP	HSTNN-IB82	10.8V-4400mAh	HP Pavilion dv3-1000 Pavilion dv3-1001TX Pavilion dv3-1051xx Pavilion dv3-1073cl Pavilion dv3-1075ca Pavilion dv3-1075us Pavilion dv3-1077ca Pavilion dv3z-1000
9	DELL	V131		DELL Series Inspiron 13Z-N311z Inspiron N311z Inspiron N311z Inspiron 14Z-N411z Inspiron 14Z-N411z Inspiron N411z Vostro V131 Vostro V131D Vostro V131R
11	DELL	DVVV7	11.1V-4400mAh	DELL Inspiron 1470 1470n 14z 1570 1570n 15ZSeries
12	DELL	8M039	11.1V-6600mAh	Dell Precision :M2400/M6400M6500
14	LENOVO/IBM	T400	14.8v 2200mAh 2600mAh Li-ion	LENOVO ThinkPad R400 7443 ThinkPad R61 (14.1" widescreen) ThinkPad R61 7732 ThinkPad R61 7733 ThinkPad R61 7734 ThinkPad R61 7735 ThinkPad R61 7736 ThinkPad R61 7734 ThinkPad R61 7738 ThinkPad R61 7736 ThinkPad R61 7743 ThinkPad R61 7744 ThinkPad R61 7751 ThinkPad R61 7753 ThinkPad R61 7754 ThinkPad R61 7755 ThinkPad R61 (14.1" widescreen) ThinkPad R61i 7732 ThinkPad R61i 7742 ThinkPad T400 ThinkPad T400 2764 ThinkPad R60i 7742 ThinkPad T400 ThinkPad T400 2764 ThinkPad T400 7417 ThinkPad T61 (14.1" widescreen) ThinkPad T61 1959 ThinkPad T61 6377 ThinkPad T61 6378 ThinkPad T61 6379 ThinkPad T61 6480 ThinkPad T61 6481 ThinkPad T61 7658 ThinkPad T61 7669 ThinkPad T61 7660 ThinkPad T61 7664 ThinkPad T61 7662 ThinkPad T61 7663 ThinkPad T61 7664 ThinkPad T61 7665 ThinkPad T61 7667 ThinkPad T61 7664 ThinkPad T61 7665 ThinkPad T61 7619 (14.1" widescreen) ThinkPad T61u(14.1" widescreen) ThinkPad T61 7665 ThinkPad T61p (14.1" widescreen) ThinkPad T61u(14.1" widescreen) ThinkPad R400 scries



Itom	Brand	Model	Voltage/Capacity	Fit Model
26	PANASONIC	CF-VZSU29	11.1v 6600mAh Li-ion	PANASONIC  CF-29 CF-29A CF-29DC1AXS  CF-29E CF-29FC1AXS CF-29FC9AXS  CF-29IC1AXS CF-29IC9AXS CF-29LW1AXS  CF-51 CF-52 CF-52CCABXBM  CF-52EW1AAS CF-52EW1AIS CF-52MW1ADS  CF-52MW1APS ToughBook-52 Toughbook-51 Computer
27	PANASONIC	CF-VZSU29A	11.1v 7200mAh Li-ion	PANASONIC  CF-29 CF-29A CF-29DC1AXS  CF-29E CF-29FC1AXS CF-29FC9AXS  CF-29IC1AXS CF-29IC9AXS CF-29LW1AXS  CF-51 CF-52 CF-52CCABXBM  CF-52EW1AAS CF-52EW1AJS CF-52MW1ADS  CF-52MW1APS ToughBook-52 Toughbook-51 Computer
28	PANASONIC	CF-VZSU30	7.4 v 6600mAh Li-ion	PANASONIC CF-18/CF-18D/CF-18F Series Computer
29	PANASONIC	CF-VZSU48	10.65 v 5200/5800mAh Li-ion	PANASONIC CF-19 Series Computer
30	PANASONIC	CF-VZSU42	7.4 v 7800mAh Li-ion	PANASONIC CF-R4 series CF-R4HW4AXR CF-R4HW4AXS  CF-R4HC4AXS CF-R4JC4AXS CF-R4JW4AXS CF-R4GW5AXR  CF-R4GC5AXS CF-R4GW5AXS CF-R4GWCKZBR CF-R4GWCZZBR  Let snote R5 CF-R5 series CF-R5KC4AXS CF-R5KW4AXP  CF-R5KW4AXS CF-R5KW4AXR CF-R5KWPAXP CF-R5LW4A Series Computer
31	PANASONIC	CF-VZSU27	7.4 v 6600mAh Li-ion	PANASONIC  CF-W2 CF-W2AWIAXR CF-W2BWIAXR  CF-W2BWIHXR CF-W2CWIAXR CF-W2DWIAXR  CF-W2DW6AXR CF-W2DWAZZKM CF-W2EWIAXR  CF-W2EW6AXR CF-W2FW6AXR CF-W2FWCFZBM-BC  CF-W2FWCZZBM CF-Y2 CF-Y2CC2  CF-Y2CW2 CF-Y2CW4AXR CF-Y2DWIAXR  CF-Y2DWAZZKM CF-Y2EWIAXR CF-Y2EW6AXR  CF-Y2FWTAXR CF-Y2FWTHXR CF-Y2G  ToughBook W2 ToughBook Y2 Computer
32	PANASONIC	B-5933	10.8v 4400mAh Li-ion	Panasonic Toughbook CF-27 battery Series Computer
33	PANASONIC	CF-VZSU18	11.1v 6600mAh Li-ion	CF-48 series CF-50 series TOUGHBOOK CF-28 Series Computer
34	PANASONIC	CF-VZSU19	11.1v 3600mAh Li-ion	CF-L2 Series Computer
35	PANASONIC	CF-VZSU20	17.1v 4000mAh Li-ion	CF-A2 Series Computer



Item	Brand	Model	Voltage/Capacity	Pit Model
39	SONY	VGP-BPS26	10.8v 4400m.Ah Li-ion	SONY VAIO SVE141100C VAIO SVE14111EG VAIO SVE14111EGB VAIO SVE14111EN VAIO SVE14111ENB VAIO SVE14112EA VAIO SVE14112EAB VAIO SVE14112EF VAIO SVE14112EFB VAIO SVE14112EG VAIO SVE14112EGB VAIO SVE14112EH VAIO SVE14112EHB VAIO SVE14112EGB VAIO SVE14112ENB VAIO SVE14113EGB VAIO SVE14113EGB VAIO SVE14113EN VAIO SVE14113ENB VAIO SVE14113FA VAIO SVE14113FA VAIO SVE14113ENB VAIO SVE14113FA VAIO SVE14115FA VAIO SVE14115FHW VAIO SVE14115FN VAIO SVE14115FNB VAIO SVE14115FW VAIO SVE14115FN VAIO SVE14115FNB VAIO SVE14116CB VAIO SVE14115FC VAIO SVE14116CC VAIO SVE14116C VAIO SVE14116CB VAIO SVE14116CN VAIO SVE14117CNB VAIO SVE14118CB VAIO SVE14118FH VAIO SVE14117GNB VAIO SVE14118EC VAIO SVE14118FH VAIO SVE14118FB VAIO SVE14118FP VAIO SVE14118FH VAIO SVE14118FB VAIO SVE14118FF VAIO SVE14A15FA VAIO SVE14A15FAB VAIO SVE14A15FF VAIO SVE14A15FB VAIO SVE14A15FB VAIO SVE14A15FB VAIO SVE14A15FN VAIO SVE14A15FNB VAIO SVE14A16CC VAIO SVE14A15FN VAIO SVE14A15FNB VAIO SVE14A16FA VAIO SVE14A16FA VAIO SVE14A16FAH VAIO SVE14A16FB VAIO SVE14A16FAH VAIO SVE14A16FAH VAIO SVE14A16FB VAIO SVE14A16FAH VAIO SVE14A16FAH VAIO SVE14A16FB VAIO SVE14A16F
40	SONY	VGP-BPL26	11.1V-6600m.Ah Li-ion	SONY VAIO SVE141100C VAIO SVE14111EG VAIO SVE14111EGB VAIO SVE14111EN VAIO SVE14111ENB VAIO SVE14112EA VAIO SVE14112EAB VAIO SVE14112EF VAIO SVE14112EFB VAIO SVE14112EG VAIO SVE14112EGB VAIO SVE14112EH VAIO SVE14112EHB VAIO SVE14112EGB VAIO SVE14112ENB VAIO SVE14113EG VAIO SVE14113EGB VAIO SVE14113EN VAIO SVE14113ENB VAIO SVE14113FA VAIO SVE14115FAB VAIO SVE14115FG VAIO SVE14115FA VAIO SVE14115FH VAIO SVE14115FW VAIO SVE14115FN VAIO SVE14115FNB VAIO SVE14115FW VAIO SVE14115FV VAIO SVE14115FNB VAIO SVE14116CB VAIO SVE14116GN VAIO SVE14116CC VAIO SVE14116C VAIO SVE14116CB VAIO SVE14116CN VAIO SVE14117CNB VAIO SVE14118EC VAIO SVE14118FH VAIO SVE14118FG VAIO SVE14118FB VAIO SVE14118FH VAIO SVE14118FHB VAIO SVE14118FF VAIO SVE14118FH VAIO SVE14118FHB VAIO SVE14118FF VAIO SVE14A15FPB VAIO SVE14A15FAB VAIO SVE14A15FBB VAIO SVE14A15FNB VAIO SVE14A15FNB VAIO SVE14A15FHB VAIO SVE14A15FNB VAIO SVE14A15FNB VAIO SVE14A15FHB VAIO SVE14A15FNB VAIO SVE14A15FNB VAIO SVE14A15FHB VAIO SVE14A15FNB VAIO SVE14A15FNB VAIO SVE14A15FNB VAIO SVE14A16FAB



Item	Brand	Model	Voltage/Capacity	Pit Model
44	TOSHIBA	PA3780U-1BRS	10.8V-4400mAh Li-ion	Toskiba : T110 T112 T130 T131 T132
45	TOSHIBA	PA5076U-1BRS	14.8V-2200mAh Li-ion	TOSHIBA: Satellite L900 Satellite L950 Satellite L950-014  Satellite L950D Satellite L950D-00L Satellite L950D-00M  Satellite L955D-100 Satellite L955-S5142NR Satellite L955-S5152  Satellite L955-S330 Satellite L955-S5360 Satellite L955-S5362  Satellite L955-S3370 Satellite L955-S5360 Satellite L955-SP5301WL  Satellite L955D-S5142NR Satellite L955D-S5140NR  Satellite L955D-S5142NR Satellite L955D-S5364 Satellite S900  Satellite S950-S5142NR Satellite L955D-S5364 Satellite S900  Satellite S950-Satellite S950D Satellite S955-S5364 Satellite S955-S5373  Satellite S955-D5374 Satellite S955-S5166 Satellite S955-S5373  Satellite S955-S5376 Satellite S955D Satellite S955-S5150  Satellite S955D-S5374 Satellite S955D-S5166 Satellite S955-S5160  Satellite U845-S406 Satellite U900-T015 Satellite U940-101 Satellite U940-10C  Satellite U845-S406 Satellite U900-Satellite U900-T01S  Satellite U940-T02S Satellite U900-Satellite U940-00R  Satellite U940-00S Satellite U940-Satellite U940-00R  Satellite U940-01R Satellite U940-11 Satellite U940-104  Satellite U940-10R Satellite U940-10F Satellite U940-10M  Satellite U940-10R Satellite U940-10F Satellite U940-10M  Satellite U940-11N Satellite U940-11 Satellite U940-10M  Satellite U940-11N Satellite U940-11 Satellite U940-10T  Satellite U940-11N Satellite U940-11 Satellite U940-584300GL  Satellite U940-58430S Satellite U945-S4140 Satellite U945-S4130  Satellite U945-S4130 Satellite U945-S4140 Satellite U945-S4130  Satellite U945-S4130 Satellite U945-S4140 Satellite U945D
46	TOSHIBA	PA5023U-1BRS	10.8V-6600mAh Li-ion 35	TOSHIBA Dynabook Qosmio T752 Dynabook Qosmio T752/T4F Dynabook Qosmio T752/T8F Dynabook Qosmio T852 Dynabook Qosmio T852/8F Dynabook Satellite B352 Dynabook Satellite B352/W2CF Dynabook Satellite B352/W2 Dynabook Satellite B352/W2IG Dynabook Satellite B352/W2MF Dynabook Satellite B352/W2 Dynabook Satellite B352/W2MG Dynabook Satellite B352/W2MF Dynabook Satellite T572/W3MF Dynabook Satellite T572/W3MG Dynabook Satellite T572 Dynabook Satellite T572/W4/Dynabook Satellite T572/W4/Dynabook Satellite T652/W4/UGE Dynabook Satellite T652/W4/UGB Dynabook Satellite T652/W5/UFB Dynabook Satellite T652/W5/UFB Dynabook Satellite T652/W6/UGB Dynabook Satellite T652/W6/UGB Dynabook Satellite T752/Dynabook Satellite T752/Dynabook Satellite T752/Dynabook Satellite T752/Dynabook Satellite T752/Dynabook Satellite T752/Dynabook Satellite T772/W5TG Dynabook Satellite T772/Dynabook Satellite T772/W6TG Dynabook Satellite T772/W5TF Dynabook Satellite T772/W5TG Dynabook Satellite T772/W6TG Dynabook Satellite T772/W5TF Dynabook Satellite C805-T01B Satellite C805-T03B Satellite C805-T06B Satellite C805-T07B Satellite C805-T03B Satellite C805D Satellite C805-T08B Satellite C805-T09B



# Dr. Power Corporation

Address: 3F, NO.131, JILI ST., PEITOU DIST., TAIPEI CITY, TAIWAN (R.O.C.)

TEL: +886-2-2820 7419

FAX: +886-2-2827 0348

DPC: http://battery9999.com/

LJD: http://ljdevice.com.tw/