



昌 勃 股 份 有 限 公 司

Dr . POWER CORPORATION

零 件 規 格 書/承 認 書

SPECIFICATION FOR APPROVAL

CUSTOMER : _____

DESCRIPTION : _____

MODEL : _____JW2057_____

CUSTOMER PART NO : _____

APPROVED SIGNATURES

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Rev	Date	Description	Designed	Checked	Approved
A	2023/5/15	Release	David	Po Chen	
B	2025/7/28	Charging Current	David	Po-Chen	

臺北市北投區吉利街 131 號 3 樓

3F, NO. 131, JILI ST., PEITOU, TAIPEI, TAIWAN, R.O.C.

TEL : 886-2-2820-7419 · FAX : 886-2-2827-0348

Product Specification

Parts Number : JW2057



1.Scope

This specification is a charger only for NB2037 & RRC2057 series product lithium-ion battery pack.

2.Application

- Lithium-ion battery packs Charge.

3.Specification

No.	Item	Specification	Remark
1	Support Battery Cells	2S	Follow BMS parameter settings
2	Charge Voltage	$8.4 \pm 0.2V$	
3	Charge Current	$4.6 \pm 0.2A$ max.	
4	Charge Current Termination	$250 \pm 10mA$	
5	Recharger Voltage	$\leq 8.2 \pm 0.1V$	
6	Pre-charge Voltage	$\leq 6.18 \pm 0.26V$	
7	Pre-charge Current	$250 \pm 10mA$	
8	Input voltage range	19V	
9	Operating Temperature	0~45°C	

4. Safety Protection

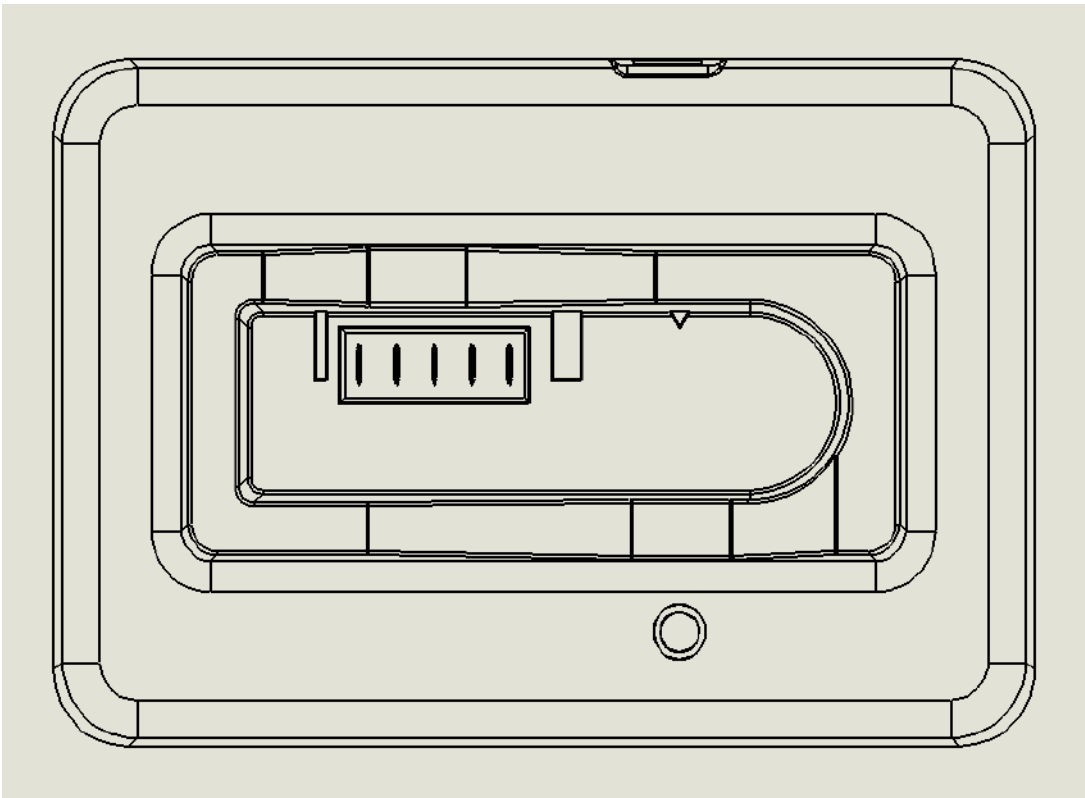
No.	Item	Specification	Remark
1	Input over voltage	32V	TBD
2	Battery thermistor sense (Cold / Hot)	0 / 45 °C	
3	Battery present detection	Yes / No	
4	Charge safety timer	560±10min	
5	Charge Over Current	$7.55 \pm 0.3A$	
6	Battery short	20A / 1us	
7	Battery over voltage	$8.72 \pm 0.3V$	
8	IC Thermal shutdown	145°C	

5.LED indicator Status

No.	Description	Color	Remark
1	Charging	Red	TBD
2	Charge Complete	Green	TBD
3	Battery Fault	Flash Red/Green	TBD

6.Pin define

Pin No.	Pin name	Description	Remark
1	BAT+	Postive	
2	SMBC	Battery SMBus Clock	
3	SMBD	Battery SMBus Data	
4	ID	Battery ID Detection	
5	BAT-	Negative	



7.Outside Dimension

