











Battery string	R29	R30	R31	R35	R39	R63	R69
2 string	NC	OR	OR	NC/OR	NC/OR	NC/OR	NC/OR
3 string	NC	NC	RO	NC/OR	OR	OR	OR
4 string	NC	OR	NC	OR	NC	NC	OR
5 string	NC	NC	NC	NC	NC	NC	NC
6 string	OR	NC	NC	NC/OR	NC/OR	NC/OR	NC/OR

NC stands for suspended, no welding. OR stands for short circuit OR welding with OR resistance. NC/OR stands for casual, hanging or short. 6 series can not use the motherboard protection circuit, please connect B+ and GND pad. The motherboard's built-in protection circuit only supports 2, 3-5 string batteries. Only lithium iron phosphate (6 strings) is supported, and other lithium pools only support 2-5 strings.

R36	NTC gear	Charge		Discharge	
		Low temperature	High temperature	Low temperature	High temperature
27K	First gear	Protection Stop charging	0° Normal charge 45°	Protection Stop charging	-20° Normal charge 60° Protection Stop charging
18K	Second gear	Protection Stop charging	2° Normal charge 43°	Protection Stop charging	-10° Normal charge 55° Protection Stop charging
13K	Third gear	Protection Stop charging	0° Normal charge 45°	Protection Stop charging	-10° Normal charge 55° Protection Stop charging
9.1K	Fourth gear	Protection Stop charging	-10° ^{0.2°charge} 0° Normal charge 45° ^{-0.1v*N} 55°	Protection Stop charging	-20° Normal charge 55° Protection Stop charging
6.2K	Fifth gear	Protection Stop charging	2° ^{0.1°C} 17° Normal charge 43°	Protection Stop charging	-20° Normal charge 60° Protection Stop charging
3.6K	Sixth gear	Protection Stop charging	-10° ^{0.2°charge} 0° Normal charge 45° ^{0.2°charge} 55°	Protection Stop charging	-20° Normal charge 60° Protection Stop charging

R8 resistance (ohm)	Cell capacity per string (mAh)
6.2KΩ5% / 1%	5000mAh
12.4KΩ5% / 1%	10000mAh
18.7KΩ5% / 1%	15000mAh
24.9KΩ5% / 1%	20000mAh
30.9KΩ5% / 1%	25000mAh (MAX)

Calculation formula: resistance value (Ω) = battery capacity (mAh) \div 0.8
 For example, the corresponding resistance of 8000mAh is 10K:
 $8000 \div 0.8 = 10000\Omega$

This capacity is the capacity of a single battery, not a single battery capacity oh! Single string capacity maximum support 25000mAh, more than 25000mAh electricity display will be inaccurate, but does not affect the actual use, the maximum resistance can not be welded more than 30.9K. The maximum charging time is 50 hours, so don't be too big!

R7 resistance value (ohm)	Corresponding battery type
27K Ω 5%/1%	4.2 V
18K Ω 5%/1%	4.3 V
13K Ω 5%/1%	4.35 V
9.1K Ω 5%/1%	4.4 V
6.2K Ω 5%/1%	4.15 V
3.6K Ω 5%/1%	3.65V lithium iron phosphate

The built-in protection circuit of the motherboard supports only 4.2V lithium iron battery and 3.65V lithium iron phosphate. For batteries of other voltages, prepare a protection plate.

R20 resistance (ohm)	Corresponding power
27KΩ 5%/1%	65W
18KΩ 5%/1%	60W
13KΩ 5%/1%	45W
9.1KΩ 5%/1%	30W
6.2KΩ 5%/1%	27W
3.6KΩ 5%/1%	100W

The power set refers to the charging and discharging power. The charging power is 100W and the discharging power is also 100W.

R7 resistance value (ohm)	Corresponding battery type
27KΩ 5%/1%	4.2 V
18KΩ 5%/1%	4.3 V
13KΩ 5%/1%	4.35 V
9.1KΩ 5%/1%	4.4 V
6.2KΩ 5%/1%	4.15 V
3.6KΩ 5%/1%	3.65V lithium iron phosphate