

PRODUCT SPECIFICATION SHEET

1. Drone Battery- 6S Pack

Sr. No.	Parameter	Value
1	Series configuration	6S
2	Max operating voltage	25.2V
3	Min operating voltage	16.2V
4	Capacity	20500mAH
5	Continuous current rating	3C
6	Peak current rating	5C
7	Operating temperature range	-40 to 75 degC
8	Weight	2250g
9	Life cycles	3000 @ 80% DOD

2. Drone Battery- 12S Pack

Sr. No.	Parameter	Value
1	Series configuration	12S
2	Max operating voltage	50.4V
3	Min operating voltage	32.4V
4	Capacity	41000mAH
5	Continuous current rating	3C
6	Peak current rating	5C
7	Operating temperature range	-40 to 75 degC
8	Weight	12500g
9	Life cycles	5000 @ 80% DOD

AlgoFET

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3. Drone BMS- 6S

Sr. No.	Parameter	Value
1	Max cell configuration support	6S
2	Max operating voltage	30V
3	Min operating voltage	7V
4	Continuous current rating	45A
5	Peak current rating	90A
6	Cell balancing current	Passive, 200mA max
7	Temperature sensors	7NTC sensors (2 onboard, 5 external)
8	Operating temperature range	-20 to 85 degC
9	Voltage measurement accuracy	+/-5mV
10	Current measurement accuracy	+/-50mA
11	Temperature measurement accuracy	+/-2degC
12	Active power consumption	500mW
13	Protections	Short circuit, Over Charge, Over discharge, Over current, Over temperature
14	Communication	CAN2.0B

4. Drone BMS- 14S

Sr. No.	Parameter	Value
1	Max cell configuration support	14S
2	Max operating voltage	60V
3	Min operating voltage	7V
4	Continuous current rating	120A
5	Peak current rating	180A
6	Cell balancing current	Passive, 200mA max
7	Temperature sensors	7NTC sensors (2 onboard, 5 external)
8	Operating temperature range	-20 to 85 degC
9	Voltage measurement accuracy	+/-5mV
10	Current measurement accuracy	+/-50mA
11	Temperature measurement accuracy	+/-2degC
12	Active power consumption	500mW
13	Protections	Short circuit, Over Charge, Over discharge, Over current, Over temperature
14	Communication	CAN2.0B

5. Drone Battery Charger

Sr. No.	Parameter	Value
1	Input Voltage	180VAC to 260VAC
2	Input current	15A / 5A (limited power out)
3	Efficiency	93%
4	Max output voltage	60V
5	Max output current	25A
6	Battery configuration support	6S to 14S
7	Hardware Stages	--Input Filter --PFC --DC-DC stage
8	Charging Stages	--Pre charge stage --Constant Current Stage --Constant voltage stage
9	Protections	--Ground Fault --O/P overload --O/P short circuit --O/P undervoltage --O/P overvoltage --Inrush current --Over temperature
10	Cooling	FAN
11	Communication	--CAN2.0B --UART --LTE 4G