Battery pack 8S1P, 64 Ah, semi-solid-state HV

High-current battery pack for multicopters and UAVs

Eight semi-solid-state cells (HV, 3.9 V nominal), format 121 × 221 mm, in series. On request we adapt configuration, connectors, cable length and form factor.



31.2 V	64,000 mAh	640 A	1,997 Wh
NOMINAL VOLTAGE	CAPACITY	MAX. DISCHARGE (10C)	ENERGY

ELECTRICAL DATA

Cell chemistry	Semi-solid-state HV (lithium)
Configuration	8S1P
Capacity	64,000 mAh
Nominal voltage	31.2 V (3.90 V per cell)
Charge voltage	35.2 V (4.40 V per cell)
Discharge cut-off	18.4 V (2.30 V per cell)
Energy	1,997 Wh
Max. discharge current	640 A (10C)
Max. charge current (20 to 45 °C)	32 A (0.5C)
Charge current below 20 °C	12.8 A (0.2C)
Charging method	CC/CV

MECHANICAL DATA

Dimensions	230 × 121 × 82 mm
Weight	approx. 4,410 g
Energy density	approx. 453 Wh/kg
Cell format	121 × 221 mm
Main connector	QS8 anti-spark, 8 AWG
Balancer	JST-XH

TEMPERATURE

Charging	0 to 45 °C
Discharging	−20 to 55 °C

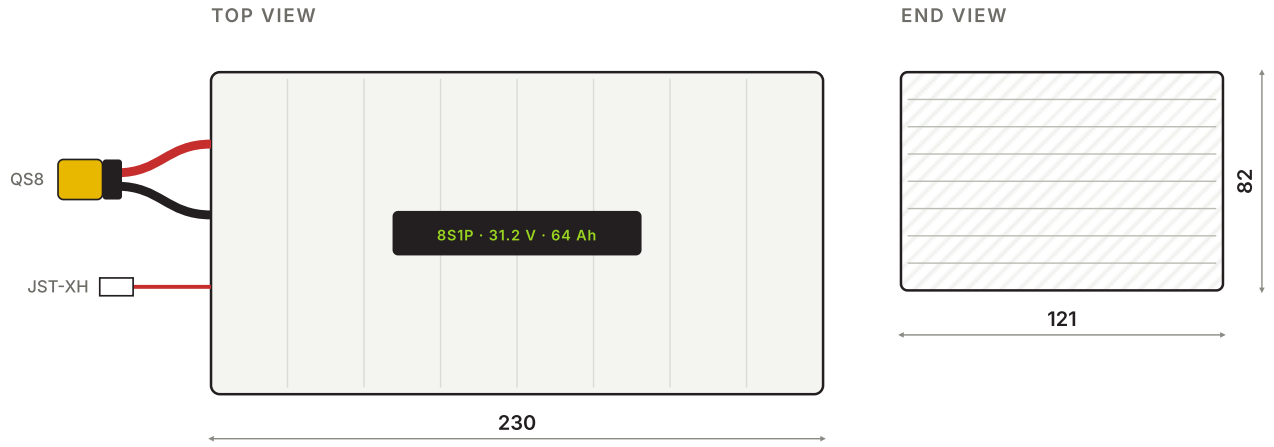
CELL MEASUREMENT

Discharge 64 A (1C) to 2.3 V	65.3 to 65.5 Ah
Discharge 128 A (2C) to 2.3 V	65.4 Ah

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Amtsgericht Bad Oeynhausen HRA 10769

All values are typical at 25 °C. Subject to technical changes and errors.

DIMENSIONAL DRAWING



Schematic drawing, dimensions in mm.

CERTIFICATES AND DOCUMENTS

UN 38.3	Test report for series production
SDS / MSDS	Safety data sheet for series production
IEC 62133	Testing on request

Transport: Lithium battery above 100 Wh: dangerous goods class 9, UN 3480. Shipping within Germany and to business customers in Europe.

SAFETY NOTES

1. Charge only with a lithium charger using CC/CV and with the balancer connected.
2. Do not short-circuit, open, puncture or expose to heat above 60 °C.
3. Do not continue to use damaged, swollen or overheated batteries.
4. For storage charge to approx. 3.5 to 3.6 V per cell, keep dry at −20 to 25 °C and cycle once every 3 months.
5. Dispose of via retailers or municipal collection points, not with household waste. Stiftung EAR reg. no. DE 22562436.

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