



BATTERY PACK

Technical Specifications



MODEL NO
DOCUMENT CODE
PUBLICATION DATE

: LFP-010-005K
: 054-TK002-00-1
: 14.07.2025

GENERAL SPECIFICATIONS



Nominal Voltage	51.2 V DC
Nominal Capacity	105 Ah
Nominal Energy	5.4 kWh
Material Properties	Aluminum
Color	Black
Cycle Life	5000 cycles or 5 years (whichever comes first), 70% remaining capacity
Protection Class	IP65
Components	Current Sensor, Cell Balancing System, State of Charge (SOC) Estimation, CAN Bus Communication

PHYSICAL SPECIFICATIONS



Dimensions (L × W × H)	25.59 × 10.67 × 9.61 in
Weight	99.21 lb
Mounting	Horizontal
Sockets	HV+ Power Socket, HV- Power Socket, Button Control Socket, Communication Socket

OPERATIONAL SPECIFICATIONS



Operating Temperature	-4°F – +131°F
Storage Temperature	-4 °F – +77 °F (6 Months)
	-4 °F – +113 °F (3 Months)
	-4 °F – +140 °F (1 Month)
Storage Voltage	≤ 30 % SOC, 51.2 V
Transport Voltage	≤ 30 % SOC, 51.2 V
Maximum Humidity	80 %

SYSTEM AND PERFORMANCE SPECIFICATIONS



Chemistry	LFP
Series	16
Parallel	1
Discharge (25°C)	150 A Continuous / 200 A Max. (5 s)
Regenerative Charging (25°C)	50 A Continuous / 200 A Max. (5 s)
Max. Charging Current Limit	50 A
Fuse	500 A
Voltage	Nominal 51.2 V
	Min. Limit 41.6 V
	Max. Limit 58.4 V



1200 Brickell Avenue, Suite 1950
Miami, FL 33131
us.imecar.com

