

LUMINOUS

CRUZ

E-Rickshaw Lithium-ion Battery

***Redesigned for a better
fit and performance in new size***



LUMINOUS

Luminous Cruze, E-Rickshaw Lithium-ion Battery, is the technology that drives the future of E-Rickshaws. It offers faster charging, longer life, and reliable ride. It assures top-class performance and superior quality which provides maximum mileage per charge, ensuring best experience.



FASTER

0 to 80% charging in
2 hours with ACA



STRONGER

Designed for rugged road with
Vibration dampening technology



SAFER

Smart thermal management
as per International standards*



WARRANTY 3 YEARS

BATTERY PACK SPECIFICATIONS

General	PARAMETERS	CRUZE LM 51CRZSMRT105
	Chemistry	LFP
	Nominal voltage (V)	51.2
	Rated capacity (Ah)	105
	Rated capacity (kWh)	5.37
	Usable capacity(kWh) @90% DoD	4.83
	Configuration	16S1P
	Cycle life	2000 times @25°, 0.25C Charge/0.5C Discharge, based on specified DoD or 3 years whichever completes earlier
	Connector type	2xSB50
	Dimensions ((L x W x H)) mm	520 x 372 x 200 ± 3
	Pack weight (Kgs)	Net weight-48Kg ± 0.5
	Pack IR at connector	≤15mΩ
	Battery case material	Metal IP67
Applicable Standards	UN38.3/ IEC 62619	

BMS SPECIFICATIONS

General	PARAMETERS	CRUZE LM 51CRZSMRT105
	BMS model	16S 51.2V 80A SW V
	Hi battery cut off	56.8 ± 1 V
	Low battery cut off	48.0 ± 0.5 V
	Continuous discharging current	50A
	Discharging current -1 (for 30 sec)	80A (SOC>30%)
	Discharging current - 2 (for 32 msec)	400A
	Discharging current - 3	-
	Short circuit current (for ≤ 250 usec)	1600A
	Nominal charging current (A)	25.0A ± 0.5
	Continuous charging current	49.0A ± 0.5
	Max charging current cut-off (for 10s)	50A
	Cell balance start voltage	3.40V ± 0.05
	Cell balance start voltage difference	≥15mV
	Balancing current	110A (max.)
	Max. cell voltage difference	≤50mV
Environmental Condition	Recommended storage temperature range	25°C±10°C/65% RH
	Operation temp. range	Charge: 1°C to 50°C Discharge: 1°C to 55°C
	Humidity (operating range)	RH ≤85%
Communication	RS485/RS232	Available
	BLE	Available
Features	Eco friendly	
	Reverse polarity	
	Short circuit protection	
	Mechanical locking arrangement	
	IP67 compliance	

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