IBS
ION BATTERY SYSTEMS

14S8P BATTERY PACK

SPECIFICATIONS

- Low voltage architecture (14 blocks in series formed by 8 cells in parallel).
- Ergonomic design enables easy access and seamless swapping experience
- Seamless integration with mobile applications and cloud computing platform.

PERFORMANCES

- Tension/Capacity: 50V / 22Ah
- High quality LG-Chem MG1 cells
- High energy density - 171 Wh/L
- High power tolerance - 4 kW peak
- Minimum self-discharge - < 3%/month
- High safety and long service life - > 1000 cycles *
- Integrated Battery Management System
- Integrated Energy Distribution Unit
- CAN and Bluetooth enabled for system and user interface
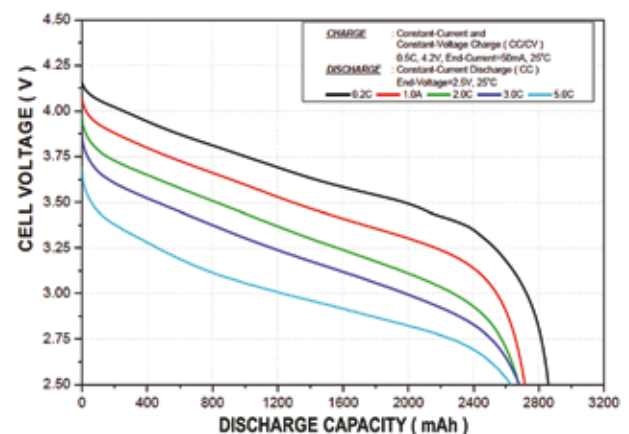- Protection class: IP65

  *with loss of capacity depending on the condition of use

APPLICATIONS

- Mobile storage stations
- EVO energy cases
- High performance electric vehicles
- Backup battery systems

Cell voltage vs. state of charge

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CHARACTERISTICS

ELECTRICAL PROPERTIES

Capacity	Nominal	Ah	22.8
Efficiency	@ 1C	%	93
Energy	Max	Wh	1155
	Available	Wh	1072
	Gravimetric density (Pack)	Wh/kg	156
Voltage	Nominal	V	50.68
	Min.	V	39.2
	Max.	V	58.8
Discharge current	@ Cont.	A	53
	@ Max	A	(5 s.)70
			(2 s.) 80
	@ Max absolute	A	(500ms) 100
Charge current	Nominal	A	4 à 8
	Max	A	10

MECHANICAL PROPERTIES

Dimensions	Height	(± 1 mm)	503
	Width	(± 1 mm)	130
	Depth	(± 1 mm)	85
Weight		kg	7.4

OPERATING CONDITIONS

Temperature	Discharge min.	°C @ (C/10)	-20
	Discharge max.	°C @ (C/10)	60
	Charge min.	°C @ (C/10)	0
	Charge max.	°C @ (C/10)	45
	Storage min.	°C	-20
	Storage max.	°C	
		1 month	60
		3 months	45
		6 months	20

INTERFACING

ION LENS - Companion App

EDISON- Fleet Management

CERTIFICATIONS
- UN38.3
- CE