

Cell Solutions for Powerful EV Performance

Category			Pouch-type Cell		
Model			E101A	E72B	E79
					
Chemistry			NCMA/Graphite	NCMA/Graphite+SiO	NCMA/Graphite
Performance	Capacity (Min, 25℃, 0.3C)	Ah	101.8	72.2	78.0
	Nominal Voltage	Vdc	3.67	3.67	3.69
	Energy	Wh	374	264	287
	Energy	Wh/L	637	625	591
	Density (Min)	Wh/kg	287	287	267
	Pulse Charge Max Current (A)* (10sec, SoC 50%, 25℃, BOL)		395	316	202
	Pulse Discharge Max Current (A)* (10sec, SoC 50%, 25℃, BOL)		590	550	546
	Continuous Discharge Performance* (SoC 100%→0%)		-	3C, 10.1min, 10℃	3C, 17.3min, 45℃ 3C, 12.4min, 25℃
	Max Discharge Power (W)	10sec, SoC 50%, 25℃	1174	1540	1365
	Internal Resistance (mΩ)	10sec, SoC 50%, 25℃	1.05 ~ 1.45 (10sec, SoC 28%(Shipping), 23℃)	1.09	1.27
Warranty			80% Capacity retention @8years, passenger car condition		
Dimension			L*W*T (mm)		
Weight			g		
Operating Temperature (℃)				-30 ~ 55	
Storage Temperature (℃)				-30 ~ 60	
Mass Production			USA	Poland	Poland

*As just reference data of cell level test, the detailed values can be modified upon system specification such as derating logic, cooling performance, etc. Concrete values can be specified based on customer's definition of its value.

Pouch-type Cell				Cylindrical Cell (2170)	
JP3	JF1	JF2	JH4	M50L	M52V
					
NCM/Graphite	LFP/Graphite	LFP/Graphite	NCM/Graphite	NCMA/Graphite	NCMA/Graphite
62.4 (0.5C)	56.6	159.2	70.6	4.93 (nom, 0.2C) (reference value)	5.07 (nom, 0.2C) (reference value)
3.68	3.22	3	4	3.69	3.69
229.6 (Min.)	182.25	509.4	266 (nom)	18.2 (nom)	18.73 (nom)
389	320.4	388.4	467.8 (nom)	746 (nom)	763 (nom)
184	165.68	182.4	213.7 (nom)	270 (nom)	278 (nom)
192	90.6 (25℃, BOL)	69.79 (0.5CP, 3.65V)	-	13.2*	17*
192	90.6 (25℃, BOL)	101.89 (0.5CP, 2.5V)	120	28.5*	48*
-	0.33CP, 180mins, 25℃	1C, 50mins, 25℃	-	-	-
706.5	182.25	254.72 (0.5CP)	199 (0.75CP)	108	120
0.88 ± 0.25	1.261 ~ 2.261 (SOC19%, 28.3A, 10sec)	0.708 ≤ x ≤ 1.208 (SOC19%, 79.6A, 10sec)	1.061 ≤ x ≤ 1.561 (SOC30%, 120A, 10sec)	23	24
-	1	-	-	5.9	6.4
-	-	-	-	-	-
To be calculated and guaranteed based on customer's driving profile					
353.5*101.7*16.4 (Max.)	352.5*100.2*16.1	Max 601.0*125.0*18.0 (At shipping state, without lead tab)	Max 101.7*353.5*16.4 (At shipping state, without lead tab)	Diameter : 21.15mm (max) Height : 70.20mm (max)	Diameter : 21.15mm (max) Height : 70.60mm (max)
Max. 1245	Max. 1100	Max. 2800	Max. 1245	67.2	67.4
-10 ~ 50	Charge : -10~50 Discharge : -20~50	Charge : 0~45 Discharge : 0~45 Ordinary temperature 23 ± 4 ℃ with Uniformity 4 ℃	Charge : 5~50 Discharge : 0~50 Ordinary temperature 23 ± 4 ℃ with Uniformity 4 ℃	Cell surface Temp. 0 ~ 55 (Charge) -30 ~ 70 (Discharge)	Cell surface Temp. 0 ~ 50 (Charge) -20 ~ 70 (Discharge)
-30 ~ 60 (7 days) -20 ~ 45 (6 months)	Max. 7days : -30~60 Max. 6months : -20~45	Max. 7 days -30~60 Max. 6months -20~45	Max. 7 days -30~60 Max. 6months -20~45	-20 ~ 55	-20 ~ 55
China	China	China ('25.3Q~) Poland ('25.4Q~) USA ('26.1Q~)	China	China / Korea	China / Korea