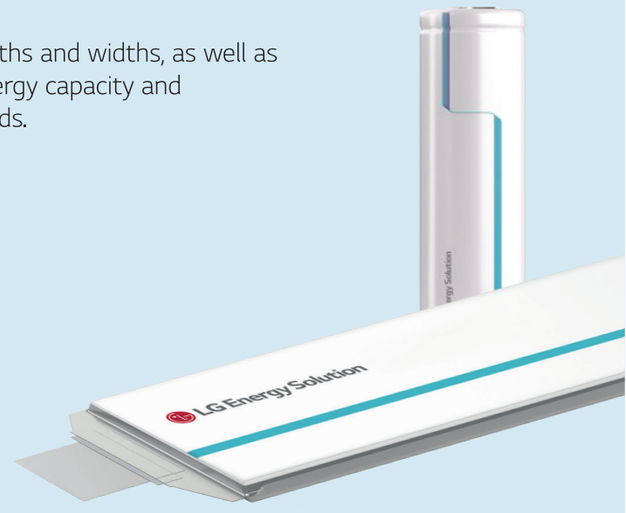
Module Solutions for Maximizing EV Space Efficiency

Category			Short Module	Long Module		Cylindrical Standard Module
Model			VDA 390 2P6S	VDA 590 2P12S	VDA 590 3P8S	CM10
						
Configuration			2P 6S	2P 12S	3P 8S	14S 40P / 28S 20P
Chemistry			NCMA/Graphite+SiO	NCMA/Graphite		NCMA/Graphite
Performance	Capacity	Ah	144.4	156.0	234.0	Min 203.0 / Min 101.5
	Nominal Voltage	Vdc	22.02	44.28	29.52	50.96 / 101.92
	Operating Voltage Range	Vdc	16.8 - 25.2	36 - 50.4	24 - 33.6	41.5 ~ 57.5 / 83 ~ 115.0
	Energy (Min)	kWh	3.17	6.91	6.91	10.36
	Energy Density (Min)	Wh/L	501	479	479	349.4
		Wh/kg	240	223	223	190
	Max Charge Power (kW)	10sec, SoC 50%, 25℃, BOL	13.8	18.1	18.1	To Be Updated
	Max Discharge Power (kW)	10sec, SoC 50%, 25℃, BOL	20.8	40.1	40.1	To Be Updated
	Quick Charge		SOC6% ~ 79.6%, 21min @25degC	SOC 8% - 80%, 30min @25degC		To Be Updated
Dimension		L*W*T(mm)	390.3*151*107.5	589*225.76*108.58 (W/O Foam Rope, Nominal)		548*91*600
Weight		kg	13.2	31.0		54.5±1
Operating Temperature (℃)			-30 ~ 60			-20 ~ 60
Storage Temperature (℃)			-30 ~ 60			-20 ~ 60
Warranty			80% Capacity retention @8years, passenger car condition			To Be Updated
Production Site			Poland	Poland		Vietnam ('26.1Q~)

Key Features of LG Energy Solution's Batteries for Commercial Vehicles

Cell Solutions

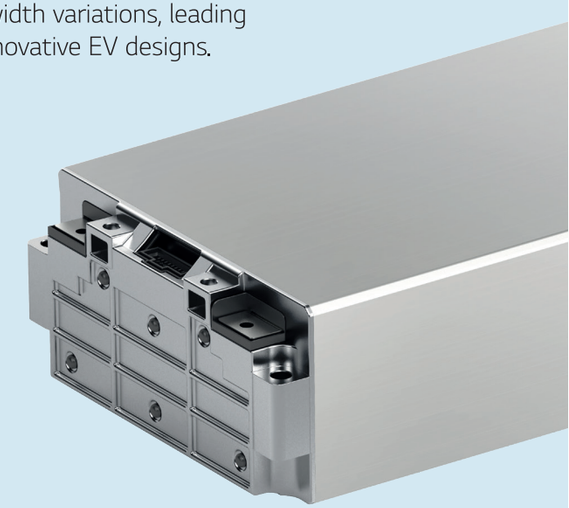
We offer pouch-type battery cells in various lengths and widths, as well as cylindrical battery cell line-ups, achieving high energy capacity and performance to meet our customers' diverse needs.



- **Robust Energy for Longer Driving**
- **High Power for Improved Energy Efficiency**
- **Diverse Cell Line-ups**

Module Solutions

Compact battery volume enables flexible height and width variations, leading to diverse module combinations that support more innovative EV designs.



- **Compact & Slim Size**
- **Customizable Structure**
- **Higher Cooling Efficiency**