



# Lithium-ion Batteries



2026 Catalogue

# Introduction

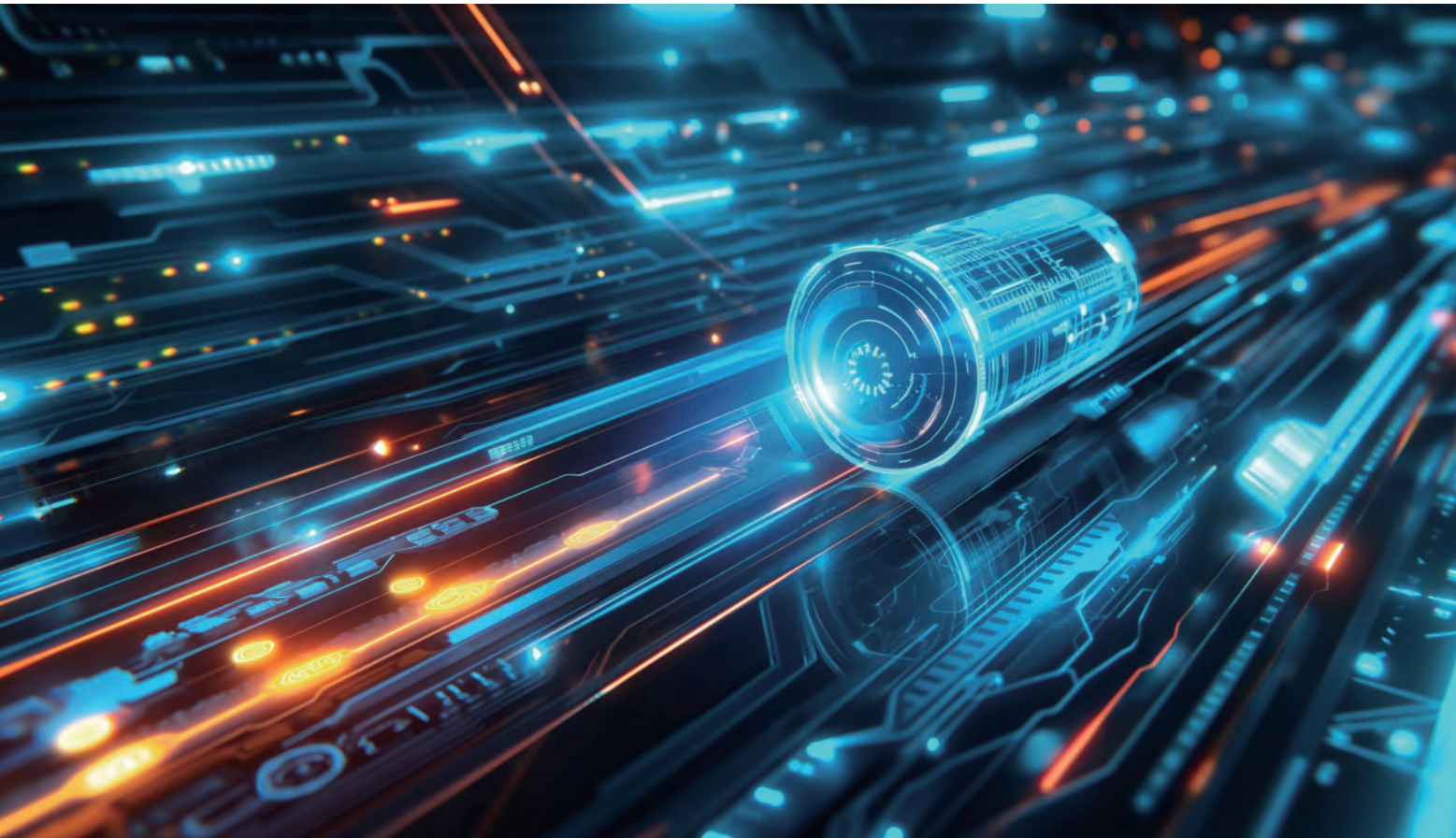
With nearly 30 years of expertise in battery research, development, and manufacturing, OMV has earned its place as a trusted leader in the global energy industry. Our name reflects our mission: to **Optimize** energy efficiency, **Maximize** performance, and **Vitalize** power for a smarter, more sustainable future.

Driven by relentless innovation and precision engineering, we set new benchmarks in energy density, cycle life, and efficiency. Our state-of-the-art intelligent production lines ensure unmatched quality, scalability, and reliability—delivering solutions that optimize energy use, maximize longevity, and vitalize progress.

From everyday household batteries to advanced industrial power solutions, OMV's diverse portfolio is designed to seamlessly integrate into modern life.

At **OMV**, we go beyond just delivering batteries—we empower possibilities and fuel your future every step of the way.

**OMV: Optimize, Maximize, Vitalize Your Power!**



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## NCM Cells

OMV NCM (Nickel-Cobalt-Manganese) lithium-ion cells are widely used in high-performance applications that demand both high energy density and reliable performance. Known for the excellent energy density, power output, and efficiency, the OMV NCM Cells offer a well-balanced combination of capacity, stability, lifespan, and are kind to human health and living environment.

## NCM Cylindrical Cells

### Main Features:

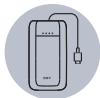
- Low self-discharge rate
- Fast charging capability
- High energy density, enabling compact designs for power-intensive applications
- Long cycle life, retain up to 80% capacity at best after 1000+ cycles
- Excellent performance across -20°C to 60°C
- Ensured safety, excellent uniformity



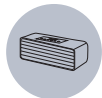
## Common Series

Model	Voltage (V)	Capacity (mAh)	Dimension (mm)	
			Diameter	Height
ICR10430-350	3.7	350	10.5	43.5
ICR14430-1100	3.7	1100	14.5	43.5
ICR14500-800	3.7	800	14.5	50.5
ICR14500-1200	3.7	1200	14.5	50.5
ICR16340-1000	3.7	1000	17	34
ICR16650-2000	3.7	2000	16.5	66
ICR18350-1400	3.7	1400	18.5	36
ICR18650-1200	3.7	1200	19	66
ICR18650-1500	3.7	1500	19	66
ICR18650-1800	3.7	1800	19	66
ICR18650-2000	3.7	2000	19	66
ICR18650-2200	3.7	2200	19	66
ICR18650-2600	3.7	2600	19	66
ICR21700-4000	3.7	4000	22	71
ICR26650-5000	3.7	5000	26.5	71

### Applications:



Power Bank



Bluetooth Speaker



Flashlight



Sensor Light

## High-Rate High-Capacity Series

Model	Voltage (V)	Capacity (mAh)	Typical Internal Resistance (mΩ)	Max. Discharge Current (A)	Dimension (mm)	
					Diameter	Height
INR18650-2000	3.6	2000	12.5	30	19	66
INR18650-2500	3.6	2500	14	30	19	66
INR18650-2600	3.6	2600	14	13	19	66
INR18650-3000	3.6	3000	15	15	19	66
INR18650-3000	3.6	3000	14	30	19	66
INR18650-3350	3.6	3200	32	10	19	66
INR18650-3500	3.6	3350	32	10	19	66
INR21700-4000	3.6	4000	12	40	22	71
INR21700-4200	3.6	4200	4.5	45	22	71
INR21700-4500	3.6	4500	3.5	60	22	71
INR21700-5000	3.6	5000	11	30	22	71
INR21700-5000	3.6	5000	5	50	22	71
INR21700-5500	3.6	5500	12	30	22	71

### Applications:



Agricultural Drone



Power Tools



Gardening Tools



Portable Power Stations

# NCM Pouch (Common ) Cells

## Main Features:

- High safety performance
- Ultra-flexible design & ultra-thin profile of 1.4 mm
- High energy density
- Low self-discharge rate
- Long cycle life
- Wide operating temperature range: -20°C to 60°C



Model	Voltage (V)	Capacity (mAh)	Dimension(mm)		
			Thickness	Width	Length
ICP231211-18	3.7	18	2.5	12.5	11.5
ICP142030-45	3.7	45	1.4	25.5	30
ICP351030-65	3.7	65	3.7	10.8	30.5
ICP302325-165	3.7	165	3	23.8	26
ICP204537-290	3.7	290	2	45	37
ICP802540-800	3.7	800	8	25	40.5
ICP783048-1150	3.7	1150	7.8	30.5	48.5
ICP103450-2000	3.7	2000	10	34	50.5
ICP605060-2000	3.7	2000	6	50.5	60
ICP964771-3800	3.7	3800	9.6	47.5	72
ICP1260110-10000	3.7	10000	12	60	110
ICR13400-550	3.7	550	Ø13.3	/	41.5

## Applications:



Power Bank



Car Toy



Game Controller



Pad

# NCM Pouch (High-Capacity) Cells

## Main Features:

- Semi-solid configuration
- High energy density up to 390Wh/kg
- High-rate discharge
- Low internal resistance with reduced heat generation
- Long cycle life, reliable performance
- Excellent performance across -20°C to 60°C



## High-Energy-Density High-Capacity Series

Model	Rated Voltage (V)	Capacity (Ah)	Max. Internal Resistance (mΩ)	Max. Continuous Discharge Current (A)	Dimension (mm)			Weight (g)	Energy Density (Wh/kg)
					Thickness	Width	Length		
INP1187187-30000	3.7	30	1	150	11.1	88	189	406	273
INP1187187-35000	3.7	35	0.8	105	11	87	187	416	311
INP1187187-39000	3.7	39	0.8	195	11.1	88	189	428	337
INP7559156-15000	3.7	15	1.5	75	7.3	59	155.5	157	354
INP7874174-22000	3.7	22	2	110	8	75	175	228	357
INP9643126-9500	3.7	9.5	2.5	66.5	9.8	44	128	119	295
INP9887187-39000	3.7	39	2	117	10	87	187	370	390

## High-Rate High-Capacity Series

Model	Rated Voltage (V)	Capacity (Ah)	Max. Internal Resistance (mΩ)	Max. Continuous Discharge Current (A)	Dimension (mm)			Weight (g)	Energy Density (Wh/kg)
					Thickness	Width	Length		
INP1146145-8000	3.7	8	1.2	240	11	47	147	162	183
INP1172170-16000	3.7	16	1.5	160	11	73	172	295	201
INP1190190-22000	3.7	22	1	220	10.7	91	196	404	201
INP8648145-6000	3.7	6	1.5	240	8.8	49	148	135	164

## Applications:



UAV



Agricultural Drone



RC Car



RC Aircraft

# Agricultural Drone Battery – NCM Pouch Packs

## Main Features:

- High energy density
- Strong discharge performance
- High current output for demanding loads
- Enhanced safety for stable performance
- Long cycle life
- Lightweight construction



Model	Rated Voltage (V)	Capacity (Ah)	Max. Internal Resistance (mΩ)	Max. Pulse Discharge Current (A)	Dimension (mm)			Weight (g)	Energy Density (Wh/kg)
					Thickness	Width	Length		
INP7559156-15-6S1P	22.2	15	12	225	48	60	168	1050	317
INP7559156-15-8S1P	29.6	15	12	225	61	60	168	1400	317
INP7874174-22-6S1P	22.2	22	12	220	47.5	76	190	1470	332
INP7874174-22-8S1P	29.6	22	12	220	64	76	190	1920	339
INP1187187-30-6S1P	22.2	30	12	300	66.5	89	200	2580	258
INP1187187-30-8S1P	29.6	30	15	300	92	92	205	3450	257
INP1187187-39-6S1P	22.2	39	12	195	71.5	89	205	2650	327
INP1187187-39-8S1P	29.6	39	12	195	94	89	205	3515	328

## Applications:



Agricultural Drone



Cargo and Delivery Drone



Washing Drone

# LFP (LiFePO<sub>4</sub>) Cells

OMV LFP (LiFePO<sub>4</sub>) lithium ion Cells offer 95% or higher efficiency in charging & discharging. Known for their outstanding cycle life and resistance to overheating, they are ideal choice for applications requiring high durability and safety. Additionally, the composition is kind to human health and living environment, which contributes greatly to a sustainable planet.

## LFP Cylindrical Cells

### Main Features:

- Superior safety and stability
- High power output and fast charging, low self-discharge rate
- 95% or higher efficiency in charging & discharging
- Stable chemistry, long cycle life up to 2000+ cycles
- Excellent performance across -10°C to 60°C



Model	Voltage (V)	Capacity (mAh)	Max. Discharge Current (A)	Dimension (mm)	
				Diameter	Height
IFR14430-400	3.2	400	1.2	14.5	44
IFR14500-400	3.2	400	1.2	14.5	51
IFR14500-600	3.2	600	1.8	14.5	51
IFR18500-1000	3.2	1000	3	18.5	50.5
IFR32700-6000	3.2	6000	18	32.5	71
IFR32140-15000	3.2	15000	45	33.5	140.5
IFR40135-20000	3.2	20000	60	40.5	137

## Applications:



Golf Carts



Electric Scooter



E-bicycle



Lawn Lamp



Portable Power Stations

# LFP Prismatic Cells

## Main Features:

- Ultra-high energy ratio and energy storage efficiency
- High discharge rate & stable discharge platform
- Long cycle life & Low levelised cost of storage
- Ultra-low internal resistance, excellent heat dissipation performance
- Excellent performance across -20°C to 60°C



Capacity (Ah)	Nominal Voltage(V)	Operating Voltage(V)	Energy Density(Wh/kg)	Cycle Life	Weight (Kg)	Dimensions(mm)			
						T	W	H (without terminals)	H (with terminals)
100	3.2	2.5-3.65	150	≥ 3000	≤ 2.25	47.8	173.9	128	132.7
125	3.2	2.5-3.65	160	≥ 3000	≤ 2.55	33.3	200.6	169.4	172
150	3.2	2.5-3.65	153	≥ 8000	≤ 3.23	40.9	174.2	204.4	207.1
206	3.2	2.5-3.65	160	≥ 3000	≤ 4.2	53.8	174.2	204.4	207.1
280	3.2	2.5-3.65	161	≥ 6000	≤ 5.76	71.8	174.2	204.4	207.1
314	3.2	2.5-3.65	173	≥ 8000	≤ 5.8	71.8	174.2	204.4	207.1

## Applications:



UPS



Telecom ESS



Grid ESS



Portable Power Stations

# LFP Battery Packs (Lead-acid Replacement)

Designed for efficiency, longevity, and safety. OMV LFP (Lithium Iron Phosphate) Battery Packs outperform the lead-acid batteries in almost every aspect, making them an ideal drop-in replacement. With their superior performance and environmental friendliness advantages, OMV LFP battery packs are the smart, long-term investment for those looking to replace outdated lead-acid technology.

## Main Features:

- Enduring & reliable performance with sufficient battery capacity
- Built-in BMS system for all-round protection & durability
- High discharge rate & stable discharge platform
- Ultra-low internal resistance, excellent thermal performance
- High safety & reliability with ultra-low internal resistance



Model	Voltage (V)	Capacity (Ah)	Dimensions: L*W*H*TH(mm)	Weight (kg)	Max Charge Current(A)	Max Discharge Current(A)	Max Pulse Discharge Current(A)
OLP660	6.4	6	70*47*102*107	0.4	3	6	20A(<3S)
OLP670	6.4	7	151*35*94*100	0.54	3.5	7	20A(<3S)
OLP1260-A	12.8	6	90*70*101*107	0.75	3	6	20A(<3S)
OLP1260-B	12.8	6	151*65*94*100	0.8	3	6	20A(<3S)
OLP1270	12.8	7	151*65*94*100	1.06	3.5	7	20A(<3S)
OLP1290	12.8	9	151*65*94*100	1.34	4.5	9	20A(<3S)
OLP12120	12.8	12	151*98*95*101	1.55	6	12	30A(<3S)
OLP12240	12.8	24	181*77*167*167	2.9	12	24	60A(<3S)
OLP12-30	12.8	30	165*175*125*125	3.9	15	30	60A(<3S)
OLP12-33	12.8	33	195*130*156*167	4.9	16.5	30	60A(<3S)
OLP12-42	12.8	42	197*165*170*170	5.7	21	42	60A(<3S)
OLP12-54	12.8	54	229*138*212*217	6.7	27	54	120A(<3S)
OLP12-84	12.8	84	260*169*213*218	10.2	42	60	120A(<3S)
OLP12-100	12.8	100	328*172*215*220	13.1	50	100	200A(<3S)
OLP12-150	12.8	150	483*170*240*240	19.2	75	100	200A(<3S)
OLP12-200	12.8	200	522*238*218*220	27	100	100	200A(<3S)

## Applications:



UPS



RVs



Fish Finder

