



Lithium ion Batteries



2025 Catalogue

Introduction

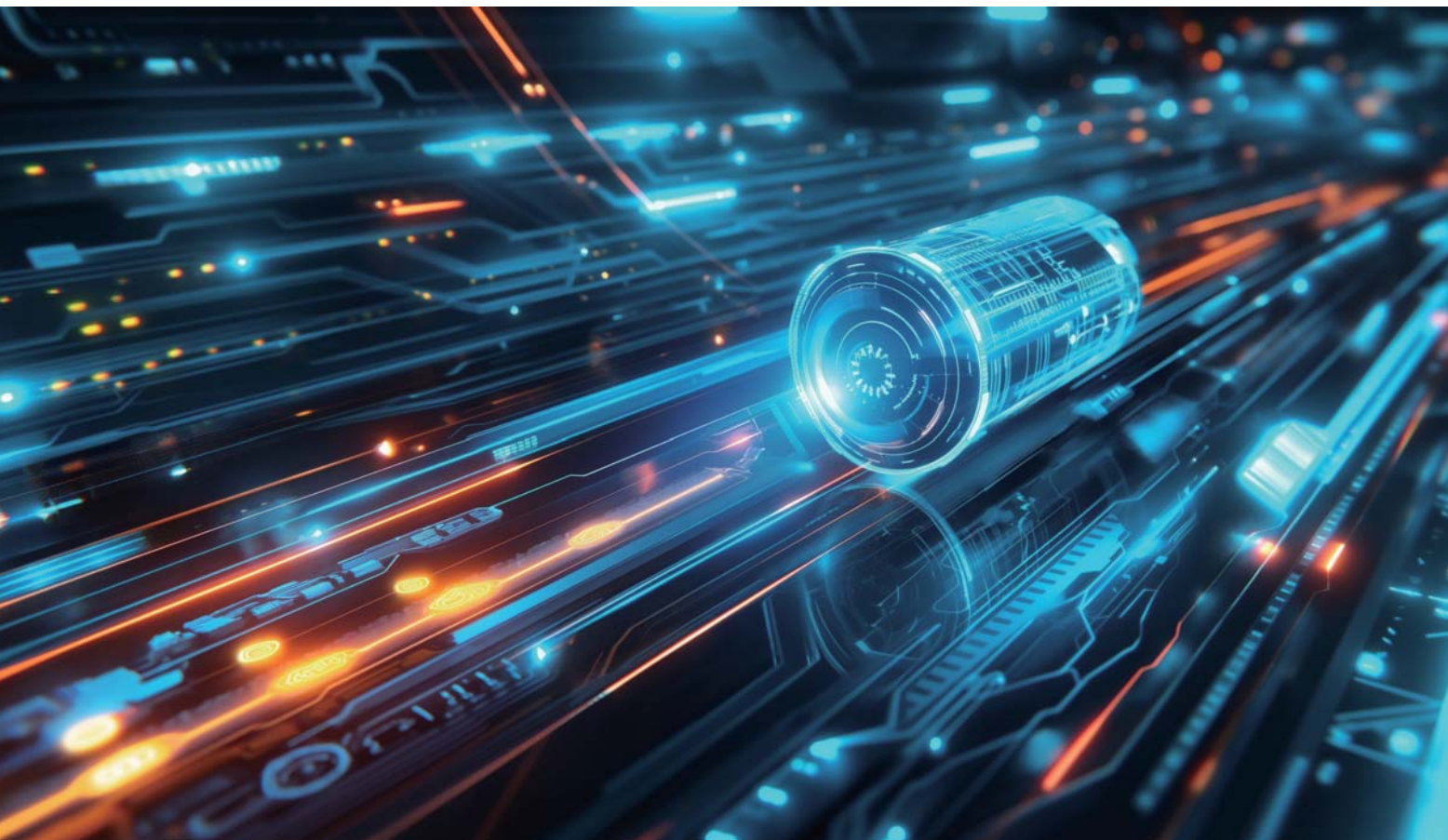
With nearly 30 years of expertise in battery research, development, and manufacturing, OMV has earned its place as a trusted leader in the global energy industry. Our name reflects our mission: to **Optimize** energy efficiency, **Maximize** performance, and **Vitalize** power for a smarter, more sustainable 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 @100% DOD
- Excellent performance across -20°C to 60°C
- Ensured safety, excellent uniformity



High-Rate High-Capacity Series

Model	Voltage (V)	Capacity (mAh)	Typical Internal Resistance (mΩ)	Max. Discharge Current (A)	Dimension (mm)	
					Diameter	Height
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	45	22	71
INR21700-5500	3.6	5500	12	30	22	71
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

Applications:



UAV



Power Tools



Gardening Tools



Portable Power Stations

Common-Rate Series

Model	Voltage (V)	Capacity (mAh)	Dimension (mm)	
			Diameter	Height
ICR17335-750	3.7	750	17	34
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
ICR14500-800	3.7	800	14.5	50.5
ICR14500-1200	3.7	1200	14.5	50.5
ICR10430-320	3.7	320	10.5	43.5
ICR21700-4000	3.7	4000	22	71
ICR26650-5000	3.7	5000	26.5	66.5

Applications:



Power Bank



Bluetooth Speaker



Flashlight

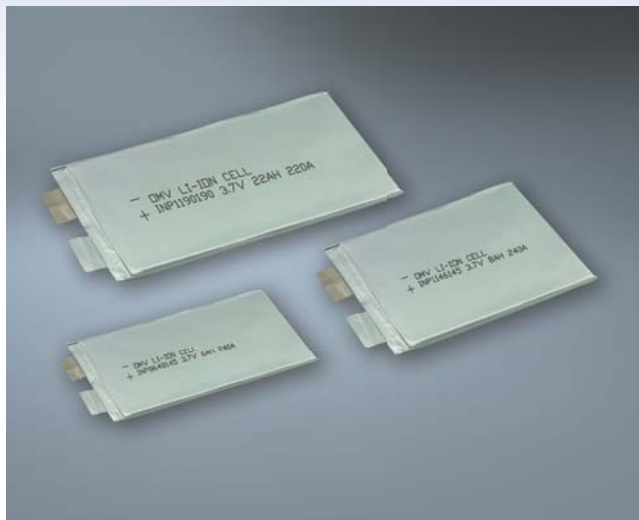


Sensor Light

NCM Pouch Cells

Main Features:

- High-rate discharge
- Low internal resistance with reduced heat generation
- Flexible size design, adaptable to compact or irregular spaces
- Long cycle life, reliable performance
- Excellent performance across -20°C to 60°C



Model	Voltage (V)	Capacity (Ah)	Typical Internal Resistance (mΩ)	Max. Discharge Current (A)	Dimension (mm)		
					Thickness	Width	Length
INP1143125-8000	3.7	8	2	80	11.5	44	127
INP7359156-8000	3.7	8	5	64	7.3	59.5	158
INP1059156-10000	3.7	10	1.5	100	10.2	60	158
INP1190190-22000	3.7	22	1	220	10.7	91	195
INP1172170-16000	3.7	16	1	240	10.9	73	172
INP1187187-30000	3.7	30	1	150	11.1	88	189
INP8648145-6000	3.7	6	1.5	240	8.8	49	147
INP1146145-8000	3.7	8	1.2	240	11	47	146

Applications:



UAV



Agricultural Drone



RC Car



RC Aircraft

LFP (LiFePO₄) Cells

OMV LFP (LiFePO₄) 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)			
						D	W	H (without terminals)	H (with terminals)
45	3.2	2.5-3.65	140	≥ 4000@25°C 1C/1C 100%DOD 80%Ret	≤ 1.2	39.8	149	99.1	101.7
50	3.2	2.5-3.65	140	≥ 4000@25°C 1C/1C 100%DOD 80%Ret	≤ 1.2	39.8	149	99.1	101.7
86	3.2	2.5-3.65	130	≥ 3000@25°C 1C/1C 100%DOD 80%Ret	≤ 2.2	47.8	173.9	128	132.7
100	3.2	2.5-3.65	150	≥ 3000@25°C 1C/1C 100%DOD 80%Ret	≤ 2.25	47.8	173.9	128	132.7
125	3.2	2.5-3.65	160	≥ 3000@25°C 1C/1C 100%DOD 80%Ret	≤ 2.55	33.3	200.6	169.4	172
150	3.2	2.5-3.65	153	≥ 8000@25°C 1C/1C 100%DOD 70%Ret	≤ 3.23	40.9	174.2	204.4	207.1
173	3.2	2.5-3.65	173	≥ 3000@25°C 1C/1C 100%DOD 80%Ret	≤ 3.3	40.9	174.2	204.4	207.1
206	3.2	2.5-3.65	160	≥ 3000@25°C 0.5C/0.5C 100%DOD 80%Ret	≤ 4.2	53.8	174.2	204.4	207.1
228	3.2	2.5-3.65	174	≥ 4000@25°C 0.5C/0.5C 100%DOD 80%Ret	≤ 4.35	53.8	174.2	204.4	207.1
277	3.2	2.5-3.65	160	≥ 3000@25°C 0.5C/0.5C 100%DOD 80%Ret	≤ 5.6	71.8	174.2	204.4	207.1
280	3.2	2.5-3.65	161	≥ 6000@25°C 0.5C/0.5C 100%DOD 80%Ret	≤ 5.76	71.8	174.2	204.4	207.1
304	3.2	2.5-3.65	175	≥ 3000@25°C 0.5C/0.5C 100%DOD 80%Ret	≤ 5.6	71.8	174.2	204.4	207.1
314	3.2	2.5-3.65	173	≥ 8000@25°C 0.5C/0.5C 100%DOD 70%Ret	≤ 5.8	71.8	174.2	204.4	207.1

Applications:



UPS



Telecom ESS



Grid ESS



Portable Power Stations

LFP Pouch Cells

Main Features:

- Large capacity / high-rate discharge
- Long cycle life reaching 6000+ cycles
- Ensured safety & durability
- Low self-discharge rate
- Excellent performance across -10°C to 60°C
- Flexible size design, adaptable to compact or irregular spaces



Model	Voltage (V)	Capacity (Ah)	Max. Discharge Current (A)	Dimension (mm)		
				Thickness	Width	Length
IFP95132200-25000	3.2	25	25	9.5	132	200
IFP75160242-30000	3.2	30	60	7.5	160	242
IFP75167262-35000	3.2	35	70	7.5	167	262

Applications:



UPS



Forklifts



Auto Rickshaw



Electric Scooter



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

OMV



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