

LEOCH HEAVY DUTY BATTERY

Parking Air-Conditioner Application



V4 LEVEL
VIBRATION RESISTANCE

AGM x EFB
WWW.LEOCH.COM

AGM PARKING AIR-CONDITIONER BATTERY DESIGN FEATURES



Highest vibration resistance
- Integrated fixation technology meets
EN 50342 V4 vibration resistance requirements.



Low self-discharge: 6-month
shelf life without recharge

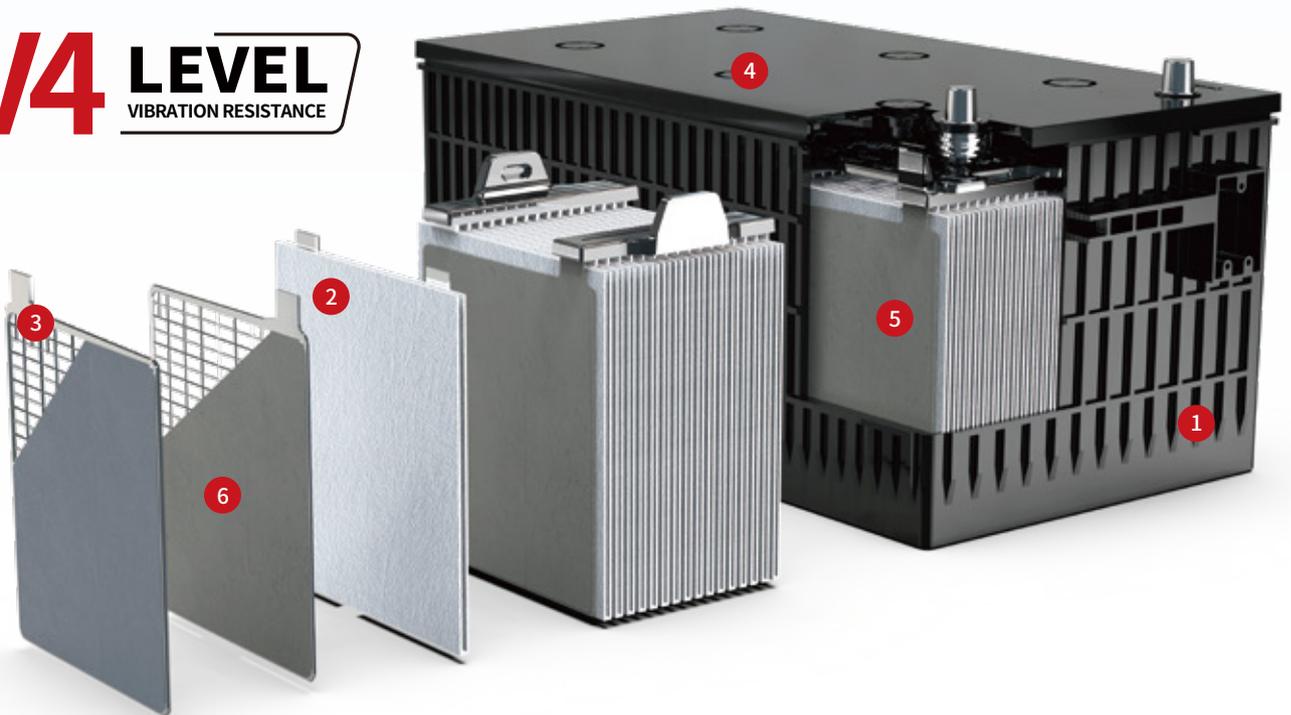


High-performance AGM separators for
extended cycle life



High charge acceptance,
fast recharge

V4 LEVEL
VIBRATION RESISTANCE



- 1 High strength case and cover
- 2 Special AGM separator - Longer cycle life
- 3 Thickened grid - enhanced corrosion resistance.
- 4 VRLA design - long service life
- 5 Total fixing technology - EN V4 level vibration resistance
- 6 Paste - deep cycle formula

01

EN 50342 V4-Level Vibration Resistance

High-strength case cover + anti-vibration design: Meets the EN 50342 V4-level vibration test requirements, adapting to the complex road conditions of heavy duty trucks.

02

Advanced Grid Technology

Thickened grid enhances corrosion resistance, and optimized current conduction pathways to improves discharge efficiency.

03

Superior deep cycle life

Excellent deep-cycle discharge performance, 600+ cycles at 50% DOD

04

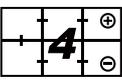
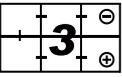
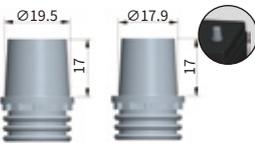
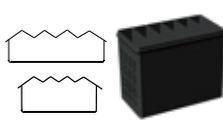
Built for Extreme Climates

Wide temperature range operation from -40°C to 60°C: Maintains high capacity in freezing weather and durability in hot weather.



AGM Parking Air-conditioner Battery Models

Model	Voltage (V)	C ₂₀ (Ah)	RC (min)	Tester CCA (-18°C, A)	Maximum Overall Dimension(mm)			Cell layout	Terminal	Hold Down	Handles
					L	W	TH				
LPM12-140HD	12	140	247	700	512	188	218	3	1	B0	TS8
LPM12-170HD	12	170	360	1000	513	222	214	3	5	B0	TS8
LPM12-200HD	12	200	445	950	527	214	244	4	12	B0	TS8
LPM12-200HD	12	200	445	950	527	214	244	3	12	B0	TS8
LPM12-210HD	12	210	450	1200	518	274	235	3	5	B0	TS8
LPM12-240HD	12	240	525	1300	518	274	235	3	5	B0	TS8
LPM12-330LHD	12	330	745	1400	527	280	250	4	5	B0	TS8
LPM12-330RHD	12	330	745	1400	527	280	250	3	5	B0	TS8

Cell layout	Terminal			Hold Down (B0)	Handles (TS8)
	Terminal 1	Terminal 5	Terminal 12		
 					

EFB PARKING AIR-CONDITIONER BATTERY DESIGN FEATURES

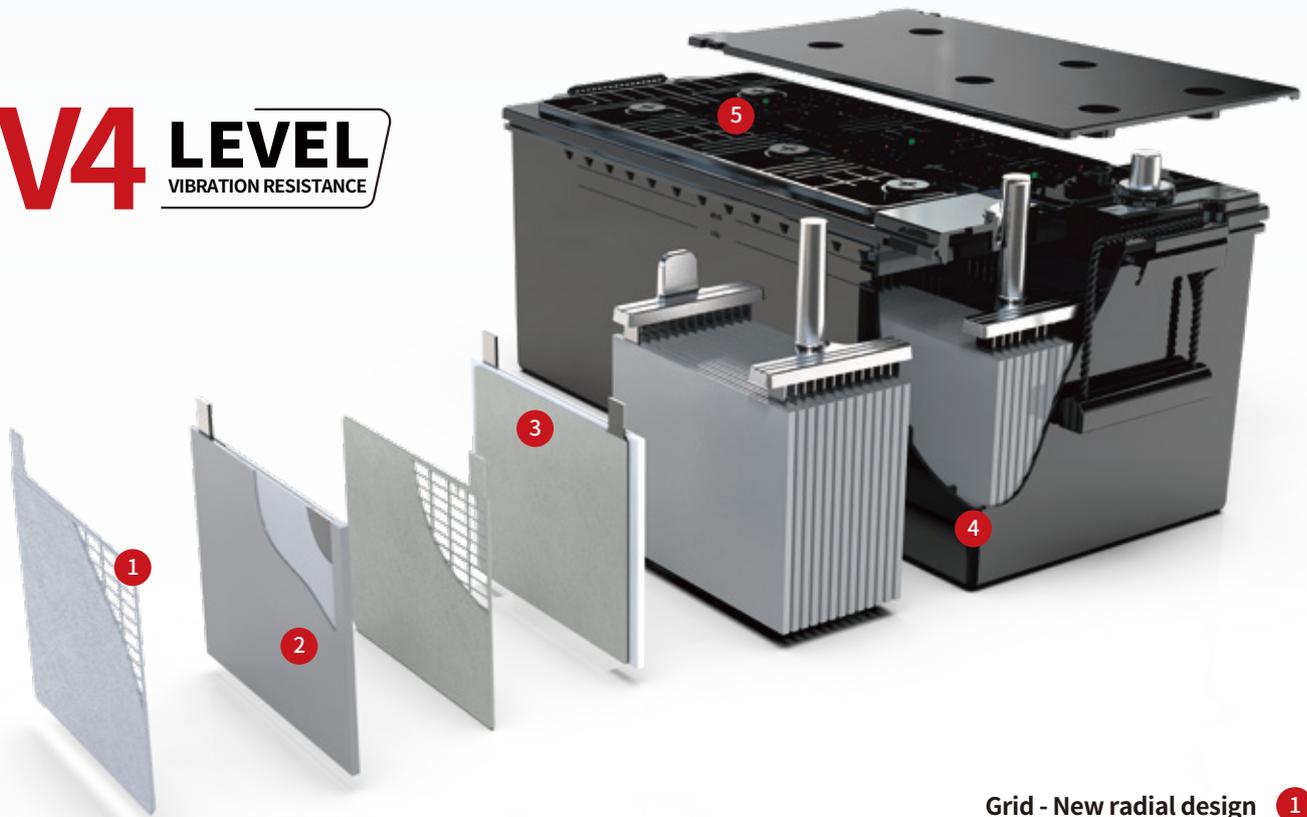
3x Deep Cycle Life

- Specially engineered for parking air-conditioner applications, minimizing replacements and reducing long-term ownership costs.
- PE glass fiber composite separators reduce active material shedding and significantly extend battery life.

V4-Level Vibration Resistance

- Glue application process at the bottom of pole group enhances structural stability and vibration resistance.
- Meets stringent European V4 standards, ensuring reliable performance in the demanding conditions of long-haul trucking.

V4 LEVEL
VIBRATION RESISTANCE



Grid - New radial design 1

Separator - Stronger wrapping force 2

Plate - Optimized plate formulation and technology 3

Bottom fixing technology - Excellent vibration resistance up to V4 grade 4

Labyrinth - Special gas channel design 5

01

Excellent Charge Acceptance & Cold Cranking Performance

- Negative plates with nano-carbon additive enable faster charging speeds.
- Superior CCA (Cold Cranking Amps) performance, ensuring reliable vehicle starts in extreme winter conditions .



02

All-Season Extreme Temperature Resilience

- Operates reliably from -30°C to 60°C, providing consistent performance in both extreme heat and freezing cold.

03

Superior Capacity

- Up to 225Ah and available in multiple high-capacity models.
- Provides sustained power for parking AC systems and onboard electronics during extended idle times.



EFB Parking Air-conditioner Battery Models

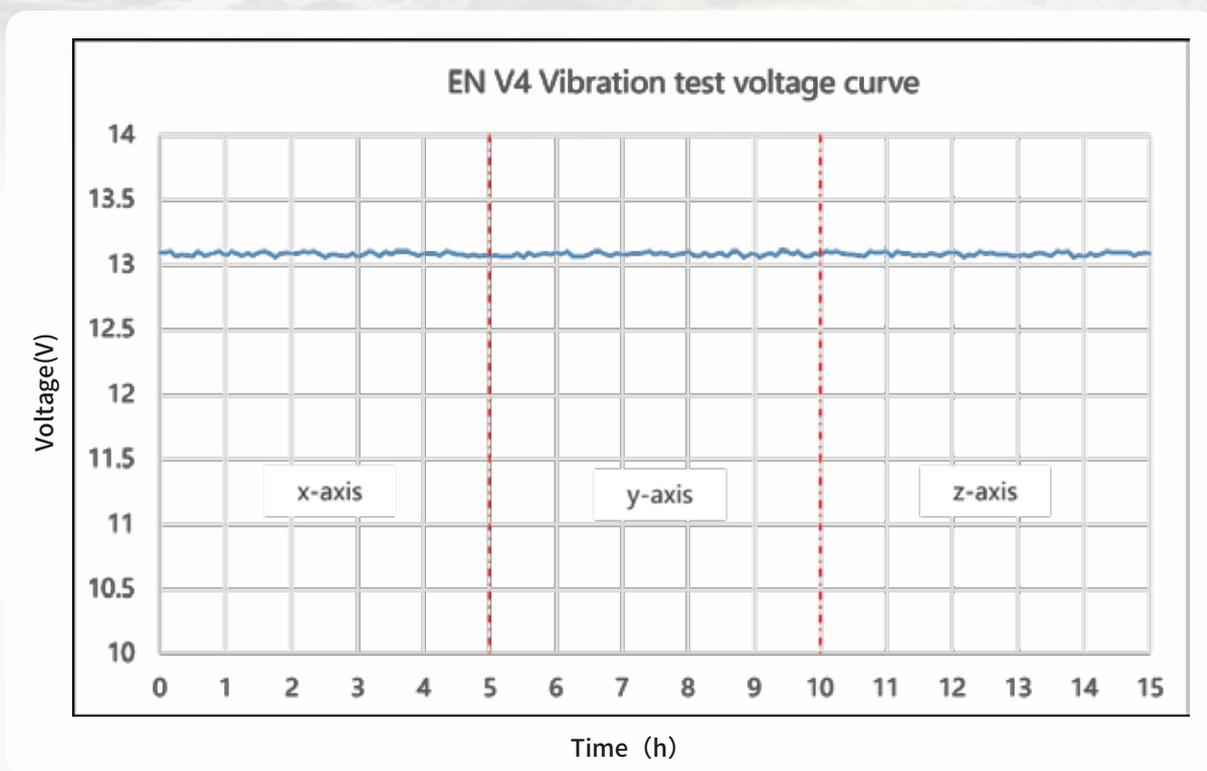
Model	Voltage (V)	C ₂₀ (Ah)	RC (min)	Tester CCA (-18 C, A)	Maximum Overall Dimension(mm)			Cell layout	Terminal	Hold Down	Handles
					L	W	TH				
EFB-180L	12	180	360	1000	510	222	217	4	1	B0	TS8
EFB-180R	12	180	360	1000	510	222	217	3	1	B0	TS8
EFB-180R	12	180	360	1100	513	222	216.5	3	1	B0	TS8
EFB-220L	12	220	456	1280	521	261	240.5	4	1	B0	TS8
EFB-220R	12	220	456	1280	521	261	240.5	3	1	B0	TS8
EFB-225R	12	225	468	1280	518	274	237.5	3	1	B0	TS8

Cell layout	Terminal (Terminal 1)	Hold Down (B0)	Handles (TS8)



EN 50342 Vibration resistance test

AGM x EFB **V4** **LEVEL**
VIBRATION RESISTANCE



**Leoch truck batteries can withstand the rigorous
EN50342 V4-level vibration test,
tackling mud, gravel, and potholes with ease—conquering the toughest road conditions.**



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LB-HD-PB-EN-V.1.0-2507