



Energy Solutions

LINDE LI-ION BATTERIES & CHARGERS

The perfect choice for a wide range of applications

- With fast charging functions and opportunity charging practices, Li-ION-powered trucks charge less and work more.
- Linde Li-ION batteries are engineered for Linde forklifts, meaning extended uptime with up to 30% energy saving.
- More maintenance equals more cost; Linde Li-ION batteries are maintenance-free with zero gassing/extraction, zero electrolyte mixing, zero watering, and zero battery exchange needed.
- The best fit for Li-ION-powered trucks are at multi-shift sites looking to meet sustainability goals and future-proof their operations.

LINDE PLUS LI-ION BATTERIES

Manufacturer		Linde				Linde			Linde		
Voltage		24V				36V			48V		
Truck Series		1101	1102	1103	1355	1355	1395	1346	1347	346	
Models	—	EW30 EW40 EWR30 EWR40	ECR30 ECR40	ETR50 ETR75	V15	V15	R15SXD R17SX R22SX	E18S E20S	E25C E27C E30C	E25CL E27CL E30CL E32CL	E18 E20 E20P E20C
Weight	lb (kg)	1,050 - 1,543 (476 - 700)				1,877 - 2,818 (852 - 1279)			2,860 - 3,429 (1298 - 1555)		
Rated Capacity	Ah	416 / 554				378 / 756			378 / 756		
Energy Capacity	kWh	10.7 / 14.3				14.6 / 29.2			19.5 / 38.9		
Battery Technology	—	NMC				LFP			LFP		
Without Heating Option:											
Operational Temperature (Min/Max)	°F (°C)	Discharging: -13° / +113° (-25° / +45 °) Charging: +23° / +113° (-5° / +45°)					Discharging: +41° / +113° (+5° / +45°) Charging: +41° / +113° (+5° / +45°)				
	With Heating Option:										
	°F (°C)	Discharging: -31° / +113° (-35 ° / +45 °) Charging: -31° / +113° (-35 ° / +45 °)					—				
Battery Warranty**		8-year / 2,500 full charging cycles									

** Optional extended warranty: 10-year / 3,000 cycles

LINDE PLUS CHARGERS

Manufacturer		Linde		Linde		Linde	
Model		24V		36V		36V / 48V	
Linde Li-ION Chargers**		60A / 1.4kW (120VAC / 1-phase) 120A / 2.8kW (240VAC / 1-phase) 225A/ 5.4kW (480VAC / 3-phase)*		375A / 13.5kW (480VAC / 3-phase)*		165A / 8kW (208 / 240VAC / 3-phase) 185A / 9kW (480VAC / 3-phase)* 310A / 15kW (208 / 240VAC / 3-phase) 325A / 19kW (480VAC / 3-phase)*	
Charging Time 0-100%	h	2.0 - 2.5				2.5 - 4.0	
Weight	lb (kg)	9 - 55 (9-25)				55 - 229 (25-104)	
Charger Warranty		2 - Year Warranty					

* Voltage Transformer for Canada 600 VAC available

** UL & CSA Rated

STANDARD & OPTIONAL CHARGER EQUIPMENT

Equipment		24V Charger	36V Charger	48V Charger	90V Charger
Standard Equip-ment	10ft (3m) Charger Cable	●	●	●	●
	Wall Bracket	●	●	●	●*
	Floor Bracket				●**
Optional Equipment	16ft (5m) Charger Cable	○	○	○	○
	33ft (10m) Charger Cable	○	○	○	○
	Charger Stand	○	○	○	○

* Wall Bracket Standard with 90V - 110A / 9kW (480VAC / 3-phase) and 210A / 17kW (480VAC / 3-phase) chargers

** Floor Bracket Standard with 90V - 375A /30kW (480VAC / 3-phase) chargers

LINDE PLUS LI-ION BATTERIES

Manufacturer		Linde							
Voltage		90V							
Truck Series		1252			1254		1279	1471	
Models	—	E20 E20/600H E25 E25L E25/600H E25/600HL E30	E30L E30/600H E30/600HL E30/600HL Beverage E35L E35HL	X20/600 X25 X30 X35	E35/600H E40/600H E40/600HL E45/600H E45/600HL E50/500HL E50/600HL	X35/600 X40/600 X45/600 X50/600	E60 E70 E80 E80/900	E100/600 E120/600 E140/600 E150/600 E160/600 E180/600	E180/900 E100/1200 E120/1200 E140/1200 E150/1200 E160/1200
Weight	lb (kg)	2,667 - 4,802 (1210-2178)					4,561 - 6,140 (2068 - 2785)		
Rated Capacity	Ah	360 / 1288					930 / 1240		
Energy Capacity	kWh	31.7 / 115.4					84.0 / 126.0		
Battery Technology	—	LFP & NMC					LFP & NMC		
Without Heating Option:									
Operational Temperature (Min/Max)	°F (°C)	Discharging: +32° / +113° (0° / +45°) Charging: +32° / +113° (0° / +45°)					Discharging: +32° / +113° (0° / +45°) Charging: +32° / +113° (0° / +45°)		
	With Heating Option								
	°F (°C)	Discharging: +32° / +113° (0° / +45°) Charging: -13° / +113° (-25° / +45°)					Discharging: +32° / +113° (0° / +45°) Charging: -13° / +113° (-25° / +45°)		
Battery Warranty**		8-year / 2,500 full charging cycles							

** Optional extended warranty: 10-year / 3,000 cycles

LINDE PLUS CHARGERS

Manufacturer		Linde	
Model		90V	
Linde Li-ION Chargers**		110A / 9kW (480VAC / 3-phase)* 210A / 17kW (480VAC / 3-phase)* 375A / 30kW (480VAC / 3-phase)*	
Charging Time 0-100%	h	2.0 - 12.0	
Weight	lb (kg)	55 - 244 (25 - 111)	
Charger Warranty		2 - Year Warranty	

* Voltage Transformer for Canada 600 VAC available

** UL & CSA Rated

Chargers



Charging Cable (10ft (3m) Standard)



Additional Cable Length (Optional)

- 16ft (5m)
- 33ft (10m)

Wall Bracket (Standard)



Floor Bracket (Standard)



Charger Stand (Optional)



LINDE CORE LI-ION BATTERIES

Manufacturer		Linde			
Voltage		80V			
Truck Series		1276	1276	1293	1293
Models	—	E25S	E25S	E20BHP E25BHP	E20BHP E25BHP
		E25SH	E25SH		
		E30S	E30S		
		E30SH	E30SH		
		E35SH	E35SH		
Weight	lb (kg)	3205 (1454)	4107 - 3214 (1863 - 1458)	507 (230)	530 (240)
Rated Capacity	Ah	560	460	277	304
Energy Capacity	kWh	44.8	36.8	21.3	24.3
Battery Technology	—	LFP	LFP	LFP	LFP
With Heating Option:					
Operational Temperature (Min/Max)	°F (°C)	Discharging: -4° / +131° (-20° / +55°) Charging: +32° / +131° (+0° / +55°)	Discharging: -4° / +131° (-20° / +55°) Charging: +32° / +131° (+0° / +55°)	Discharging: -4° / +131° (-20° / +55°) Charging: +32° / +131° (+0° / +55°)	Discharging: -4° / +131° (-20° / +55°) Charging: +32° / +131° (+0° / +55°)
Battery Warranty**		4-year / 1,500 full charging cycles			

** Optional extended warranty: 10-year / 3,000 cycles

LINDE CORE CHARGERS

Manufacturer		Linde	Linde	Linde	Linde
Charger		External Charger	Onboard Charger	External Charger	Onboard Charger
Linde Li-ION Chargers**		110A / 9kW (480VAC / 3-phase)* 210A / 17kW (480VAC / 3-phase)*	80V 54A / 4.5kW	110A / 9kW (480VAC / 3-phase)* 210A / 17kW (480VAC / 3-phase)*	80V 40A / 3.3kW
Charging Time 0-100%	h	1.4 - 3.0	8.0 - 9.0	1.4 - 3.0	8.0 - 10.0
Weight	lb (kg)	55 - 80 (25 - 36)	—	15 (7)	—
Charger Warranty		2 - Year Warranty			

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For more information on Linde Material Handling equipment, please contact:



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Linde Material Handling

Member of KION Group

ANSI: Standard truck meets all applicable mandatory requirements of ANSI/ITSDF B56.1 standards for powered industrial trucks.
NOTE: Performance data may vary due to motor and system efficiency tolerances. The performance depicted represents nominal values obtained under typical operating conditions. Metric dimensions are in millimeters unless otherwise specified. All metric dimensions are not direct equivalents due to rounding data.
The descriptions and specifications included on this data sheet were in effect at the time of printing. KION North America Corporation reserves the right to make improvements and changes in specification or design without notice and without incurring obligation. Please check with your authorized Linde dealer for information on possible updates or revisions.