

Universal fast-charge lithium-ion battery system

48V lift truck battery

For Class I & II

UgoWork batteries are **UL-listed**, **OEM-approved**, and powered by a smart Battery Management System (BMS) that helps ensure safety, flags issues early, and improves fleet performance. It works quietly in the background—**spotting issues before they hit your floor**. And when hands-on help is needed, our tech team is already on it.

Specifications¹

	F424	F422X	F422	
Maximum voltage at full charge		56.7 Vdc		Other config. available. Contact us
Nominal voltage		51.8 Vdc		
Discharge end voltage		42.7 Vdc		Other config. available. Contact us
Nominal capacity	688 Ah / 35.6 kWh	550 Ah / 28.5 kWh		
Chemistry		NMC		Nickel Manganese Cobalt
Charging - Input	480Y/277 Vac 22 A	480 Vac 3 PH 3W + G 60 Hz 22 A	480 Vac 3 PH 3W + G 60 Hz 15 A	Embedded charger, nominal Output voltage at 48 Vdc
Charging power	15 kW (315 Adc)	15 kW (300 Adc)	10 kW (200 Adc)	
Charging time (standard)		1 hr / shift		Based on a standard application, 8 hr shift
Continuous discharging current (max.)		325 Adc		SB output connector limited
DC output connector		SB350, gray		
Continuous operating temperature		-20–30 °C / -4–86 °F		Continuous operation at full specifications
Sporadic operating temperature		-30–45 °C / -22–113 °F		For limited time or at reduced specifications
Transport / Storage temperature		-20–50 °C / -4–122 °F		Long-term storage: -20 °C–25 °C (-4 °F–77 °F)
Auxiliary output current (max.)		10 Adc		Continuous battery voltage for accessories
Communication with truck		CAN & IWS (Interrupt Warning Signal)		Compatible with OEM standards
Connectivity		Wi-Fi (2.4 GHz)		LTE available upon request
Certifications		UL 2580, UL 583 Type E/EE compliant, UN 38.3, FCC / IC		
Dimensions (without counterweight)	38.5 x 20.2 x 22.0 in 978 x 514 x 559 mm	38.5 x 16.7 x 22.0 in 978 x 423 x 559 mm		Adaptable counterweight configuration in order to fit any truck compartment. Ask us
Weight	731–1,499 kg 1,612–3,305 lbs	467–1,499 kg 1,030–3,305 lbs		Varies based on counterweight configuration

Charging starts in the battery

- Onboard chargers for easy plug-and-charge
- Integrated safety to reduce wear and heat buildup
- Universal, multi-volt charging made possible by built-in design
- No bulky chargers on your floor

Fleet-wide fit

Our modular counterweight system adapts to your truck's specs, size, and weight class—no retrofitting, no workarounds.



¹ Technical specifications are based on standard operating conditions and may be subject to changes.



Multi-volt
charging station



Smart, compact, built to work.

- One integrated system—battery + charger, same manufacturer
- No live power until the connector locks in place; then, 480V current flows
- Shoebox-sized charger fits anywhere
- Supports every UgoWork battery—out of the box

Specifications¹

Charging station

Product compatibility	All UgoWork battery models	
Product Input rated nominal voltage	480Y/277 Vac	3 phase, ± 10%
Input current (max.)	22 A	22 A FLA at rated voltage
Output charging current (max.)		Compatible with circuit breaker 30 A
Power connection type	4W+G	
Rated frequency	60 Hz	47 ~ 63 Hz range
Input wire size	8–10 AWG	
Charging cable length	11.5 ft / 16.5 ft 3.5 m / 5 m	Between wall box and connector
Weight (standalone)	9 kg 20 lbs	
Dimensions (standalone)	14 x 10 x 6 in 356 x 254 x 152 mm	Explore available configurations.
Operating temperature	-20–60 °C -4–140 °F	
Transport / storage temperature	-20–60 °C -4–140 °F	
Protection rating	NEMA 4	IP65 equivalent
Certification	UL 508A	

Power
every
truck
in your
fleet



What's your real
TCO?

CAPEX, OPEX, and usage costs
included.

[Let's run the numbers](#)

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