



V-Force[®] Lithium-Ion Compact Batteries



Technology that outlasts and outperforms lead-acid for outstanding value

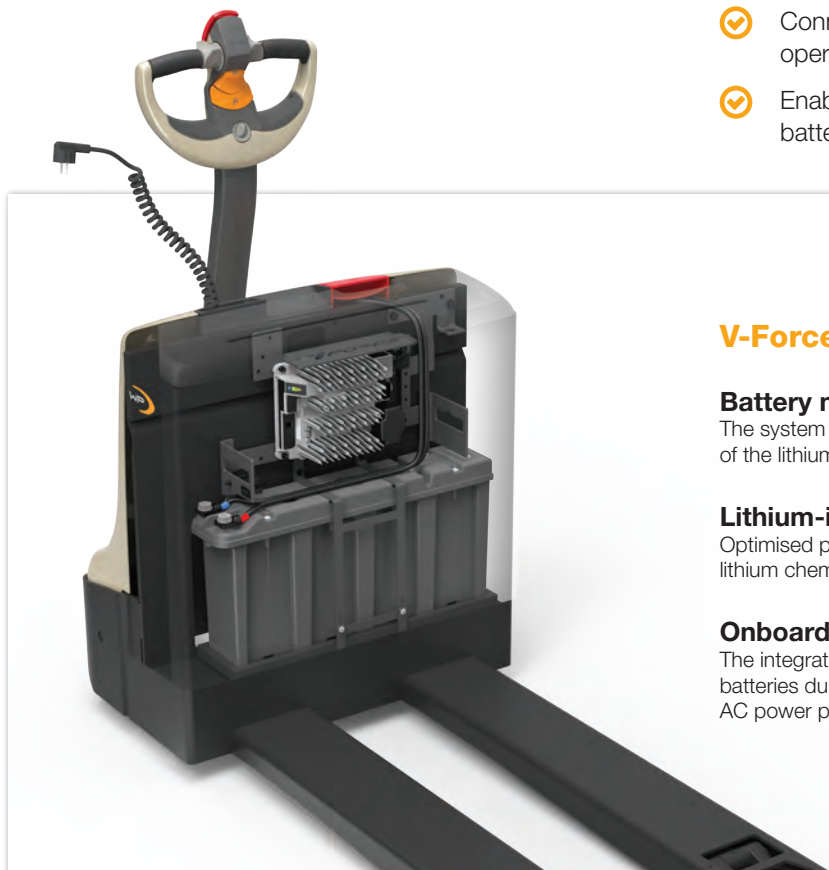
Now available for Crown's WP 3010 and WP 3080 pallet trucks and DS 3000 Series double stackers:

V-Force Lithium-Ion compact batteries deliver all the benefits of lithium-ion technology, including greater efficiency and longer runtimes than traditional lead-acid technology. The compact design combines cost-efficiency with high energy density.

A system designed for performance

V-Force Lithium-Ion compact batteries come with multiple value-added functions, making them easier and more efficient to use:

- ✔ Integrated onboard charger
- ✔ Fully integrated with truck, so truck display shows battery discharge levels and warnings
- ✔ Battery management system that extends battery life by preventing abuse or operation in non-warrantied conditions
- ✔ Connection to Early Warning System that alerts operator before system shuts down truck
- ✔ Enables opportunity charging without risk of battery damage



V-Force technology makes the difference

Battery management system

The system prevents deep discharging and overcharging of the lithium-ion batteries, extending the total lifespan.

Lithium-ion compact batteries

Optimised performance based on one of the most stable lithium chemistries available.

Onboard charger

The integrated onboard charger allows for easy charging of the batteries during breaks (opportunity charging). The standardised AC power plugs can be connected to common power sockets.

You can depend on V-Force Lithium-Ion compact batteries for:



Longer life

Lithium-ion batteries can be subjected to many more charge/discharge cycles than lead-acid batteries before their capacity is significantly reduced.



Extended runtime

Lithium-ion batteries have a higher energy density, often resulting in longer runtimes compared to lead-acid batteries.



Higher efficiency

Lithium-ion technology is more energy-efficient when charging and discharging, helping to reduce carbon footprint.



Safer, easier maintenance

V-Force Lithium-Ion compact batteries are maintenance-free, eliminating the need for battery watering and no longer exposing your employees to harmful acid or vapour.



Compact battery design

The compact design of the battery architecture, combined with integrated charger technology, provides a robust and cost-efficient energy solution.



Crown-backed service

Your Crown service technician is trained to service your forklifts and the entire V-Force Lithium-Ion Energy Storage System of battery packs and chargers, providing a one-stop shop to keep your fleet moving.

For more information, contact your local Crown dealer.

SPECIFICATIONS

Truck models	WP 3010, WP 3080, DS 3000
Battery model	V-LI1110
Capacity	105 Ah
System voltage	24 V (25.6 V nominal)
Onboard charger	26 A (other chargers on request)
Charging time (onboard charger)	< 4 hrs
Operating time without charging (based on power consumption of VDI 2198)	For WP: up to 8.5 hrs For DS: up to 2.4 hrs
Dimensions (L x W x H)	148 mm x 597 mm x 602 mm
Weight	35 kg
Charge temperature	5 °C to 45 °C
Discharging temperature (operation/storage)	0 °C to 45 °C
Charger input	230 V – 50 Hz
Conformance	CE, UN38.3
Warranty	5 years or 1200 cycles at 75% SoH



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