



V-Force® Lithium-Ion Energy Storage Systems

The V-Force® Lithium-Ion ESS is fully integrated with a full line of Crown lift trucks for flexibility, scalability and convenience.



- **Lower Maintenance, Lower Costs** – Eliminates the time-consuming tasks associated with lead-acid batteries including battery changes, watering or special battery rooms.
- **Improved Efficiency** – Achieve greater efficiency, higher sustained voltage properties as the battery discharges.
- **True Opportunity Charging** – Increase uptime with periodic opportunity charging, enabling one lithium-ion battery to achieve more run time in a 24-hour period.
- **No Battery Swapping** – One lithium-ion battery can handle one shift or multiple shifts with no need for extra batteries or the downtime required to change them.
- **Increased Safety** – Zero emissions during charging means no gassing and no exposure to harmful acids and vapors. A multi-level safety architecture provides complete protection during use.
- **Longer Life** – Lithium-ion batteries outperform lead-acid batteries, saving replacement and service costs over time.

Note: Communication/Diagnostic Kit (Part No. 165064) includes Communication Y cable and Peak Can Dongle. Communication/Diagnostic Cable Only (Part No. 165541-001)



V-Force Lithium Ion Energy Storage Systems for WP Series Pallet Truck

The V-Force Lithium Ion Pack's design supports superior functionality to promote easier, more efficient use



- Integrated on-board charger
- Fully integrated with truck display showing battery discharge levels and warnings
- Connection to the Early Warning System alerts the operator before the battery stops truck operation
- The battery management system extends battery life by preventing abuse and operation outside warranted conditions
- **Longer Life** - Can undergo considerably more charge/discharge cycles than lead acid batteries before their capacity is significantly reduced
- **Extended Run Time** - Higher energy density, often resulting in longer run time versus lead acid batteries
- **More Efficient** - More energy efficient when charging and discharging, reducing carbon footprint
- **Safer and Easier to Maintain** - Maintenance free, eliminating the need for battery watering and avoiding the exposure of your employees to harmful acid and vapors
- CE compliant and UL Listed
- Warranty - 5 years from date of sale, or when reaching Maximum Ah Throughput, which is 2000 cycles x 80% of the battery capacity

Note: Authorization of Modification is needed for trucks not already modified for lithium ion batteries by Crown Equipment.

Communication Accessory Kit (P.N. 164423-001): Includes: 24V Jumper Plug for deeply discharged recovery. Communication Peak Can Dongle, Communication Cable for downloading data and diagnostics, and Replacement Comms Cable.

Communication Accessory Kit Less Dongle (P.N. 164423)

Communication Cable Only (P.N. 164469)

24V Jumper Plug (P.N. 164424): For deeply discharged recovery.

Power Cable NEMA/CEE7 14AWG 2M BLK (P.N. 300805-042)

⚠ **WARNING:** Cancer and reproductive harm - www.P65Warnings.ca.gov