

StartSentry— Ultra Capacitors

The modern transit service is a 24/7 non-stop commuter ballet where timing is everything.

Whether it means getting an entire city to work on time or sending its people out for a night on the town, your buses need to be ready and waiting - not back at the garage tied to a jump cart.

Vanner StartSentry® Ultra Capacitors are the onboard solution to fast and reliable starts. The StartSentry® assists OEM starting battery configurations by providing up to 80kJ of starting power - regardless of battery charge state.

Immune to parasitic loads the StartSentry® starts your bus even if the starting batteries are drained. Its microprocessor automatically energizes the multiplex enabling restarts while en route and dampens charging system electrical surges.

A StartSentry® monitors and responds to battery shorts preventing thermal occurances and can even reduce battery quantities needed.

Vanner StartSentry® Ultra Capacitors. The power solution for a fresh start.







Four Models

- Positive Sense Start
- Ground Sense Start
- Positive w/CAN
- Ground w/CAN
- Assists starting batteries on every start
- Electrical system surge suppression
- Clean, self-contained design
- Simple installation
- Great retrofit solution

- Microprocessor monitors and responds to shorted batteries preventing

thermal events

Multi-Vocational:

- Transit and Coach
- Buses
- Fire & Rescue
- Off-Road Equipment
- Critical-Start Vehicles

- Enables the starting batteries to be converted to deep cycle batteries to provide additional ampere hours

> - StartSentry may replace up to 100+ lbs (45Kgm) of staring batteries

- Microprocessor and contactor energize multiplex for wakeup

No More Dead **Battery Buses!**

Spec.

Operating Voltage Max. Input Voltage Operating Temperature Storage Temperature Peak Power Cold Cranking Amps Capacitance Storage Energy **Energy Storage Window** Life Cycle Leakage Current Self Discharge Time Charging Time (Initial Install) **Designed Operation** Contents Chassis Dimensions Weight 7.0VDC to 30VDC 36VDC

-40° C to +60° C, -40° F to +140° F -40° C to +70° C, -40° F to +158° F 25kW at -18° C for 1 second

1800A at -18° C for 1 second

250 Farad 80kJ

12VDC - 28VDC

200,000 Cycles

10mA

10 days to 80% at 27° C

15 Minutes

Self Controlled

Capacitors, Controls, Contactor Black Powder Coated Aluminum

32H x 56D x 19W cm (12.5 x 22 x 7.5 in)

18kg (40 lbs.)

Tech.



