

STARTSENTRY Ultra-Capacitors

Vanner StartSentry ultra capacitors improve the reliability of the vehicle's starting system. Used in parallel with the vehicle's OEM starting batteries the StartSentry assists the starting batteries on every start. Parasitic loads do not effect StartSentry, it is electrically connected when starting and then disconnected after start. If parasitic loads do drain the starting batteries, Start Sentry has the capability to start the vehicle from the stored power within the system.

After initial installation StartSentry has an initial charge time of approximately 15 minutes. Once in operation the system will sustain it's charge by periodically maintaining it's electrical connection to the batteries for 20 minutes after starting.

Start Sentry modules encase all components, capacitors, controls, and contactor for a simple streamlined installation.

Some configurations may allow the fleet operator to remove secondary starting batteries, saving weight and maintenance costs. Faster cranking during starting lowers exhaust emissions at engine start and relieves stress on the starter and other electrical system components.



24V / 80kJ

Bus - Heavy Duty

**Transit and Coach
Buses**

**Fire & Rescue
Off-Road Equipment
Critical-start Vehicles**

Specifications

UCS24-80KJ-IS	Positive Sense for Start
UCS24-80KJ-GS	GND Sense for Start
Operating Voltage Range	7.0VDC to 30VDC
Maximum Input Voltage	36VDC
Operating Temperature	-40° C to +60° C, -40° F to +140° F
Storage Temperature	-40° C to +70° C, -40° F to +158° F
Peak Power	25kW at -18° C for 1 second
Cold Cranking Amps	1800A at -18° C for 1 second
Capacitance	250 Farad
Storage Energy	80kJ
Energy Storage Window	12VDC - 28VDC
Life Cycle	200,000 Cycles
Leakage Current	10mA
Self Discharge Time	10 days to 80% at 27° C
Charging Time Initial Installation	15 Minutes
Designed Operation	Self Controlled
Contents	Capacitors, Controls, Contactor
Chassis	Black Powder Coated Aluminum
Dimensions	12.5H x 22.0D x 7.5W
Weight	40 lbs.

Transit Bus Installation

