

SRSC-100 Energy Reaction System

*Intermittent Power creates large financial losses for manufacturers.



SRSC-100 provides Industrial Scale Machine Voltage Drop Protection. It is an outdoor-rated, DC-coupled Super Capacitor storage system that includes HyperCap modules, HVAC & fire suppression system, along with remote control. Connect multiple units together for larger systems.

Cell Type: HCWC42
Voltage Range: 250 to 800
Capacity (kWh): 100
Rated Charge/Discharge Current: 180/180A
Max Discharge Current: 180A
Max Charging Current: 180A
Overload Capacity 120% 10 Minutes, 130% 1 Minute, 150% 200ms
Output THDu $\leq 2\%$ AC frequency 60Hz
AC PF Listed: 0.8~1 leading or lagging (Load-depend)
Modular design and wide power range in single cabinet
Bi-directional Power Conversion System
Rated Grid Voltage 3P3W+PE, 480 ($\pm 5\%$ configurable) Vac

Communication Port CAN *2/RS485*4
/Ethernet*2/WIFI*1 AS4777.1, VDE4105
EMC Standard FCC
**Grid-tied Standard IEEE1547; UL1741SA; RULE 21
Safety Certification UL1741; UL9540**

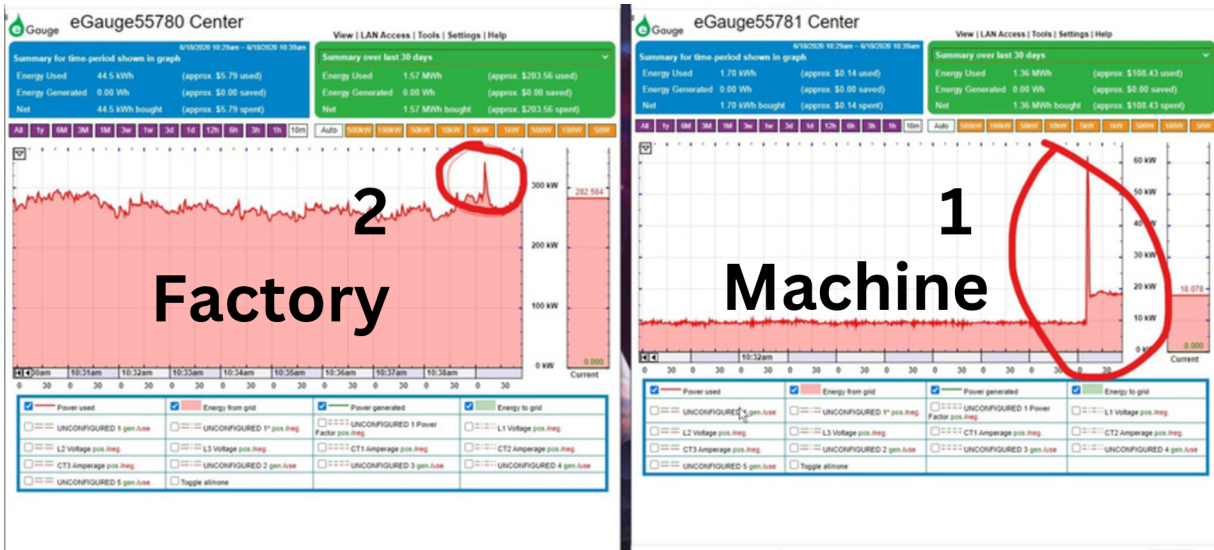
*The U.S. Department of Energy (DOE) and the Electric Power Research Institute (EPRI) have estimated the financial losses in the U.S. industry due to poor power quality to range between \$119 billion and \$188 billion annually. These losses stem from a variety of issues such as voltage sags, surges, transients, and harmonics, which can cause equipment damage, reduce productivity, and increase maintenance costs

Built-in transformer for direct grid connection
Grid-support functions
Virtual Synchronous Generator (VSG) with Seamless Reaction Time

Dimensions: 43.3"(W) x 43.3"(D) x 92.1" (H) Max
Weight: 5070 lbs Firefighting System: Integrated
System Efficiency: 85%
IP Rating: IP54
Parallel: Max 3 cabinets

Industrial Power Problem

Starting a large industrial motor can cause a significant inrush current, leading to voltage drops, power quality issues like harmonics and transients, and increased mechanical and thermal stress on both the motor and the electrical circuit. These effects can disrupt other equipment, reduce efficiency, and potentially cause damage or premature wear, highlighting the need for a controlled start-up method.



In this example on the right chart #1, we can see the severe spike in power rising 7 to 8 times higher causing a large voltage drop to surrounding equipment and driving the Factory #2 over it's demand limit, triggering additional power costs. You pay the power company extra for your problems that cause downtime and damage.

How the SRSC-100 Works

Inserting the SRSC-100 between the 480V AC mains panel and a heavy industrial machine serves as a high-speed energy buffer, stabilizing voltage, reducing inrush currents, and providing instant power during short interruptions. It smooths power delivery, protects equipment from transients, and enhances energy efficiency by managing peak loads, ultimately improving power quality and extending the lifespan of industrial machinery.

The SRSC is available in sizes from 4kw to 10MW

Your Contact

Doug Jenkins
doug@kllenergyservices.com
248-760-0330

Dave Medinis
dave@stackrackbattery.com
833-547-5557 Ext 3

