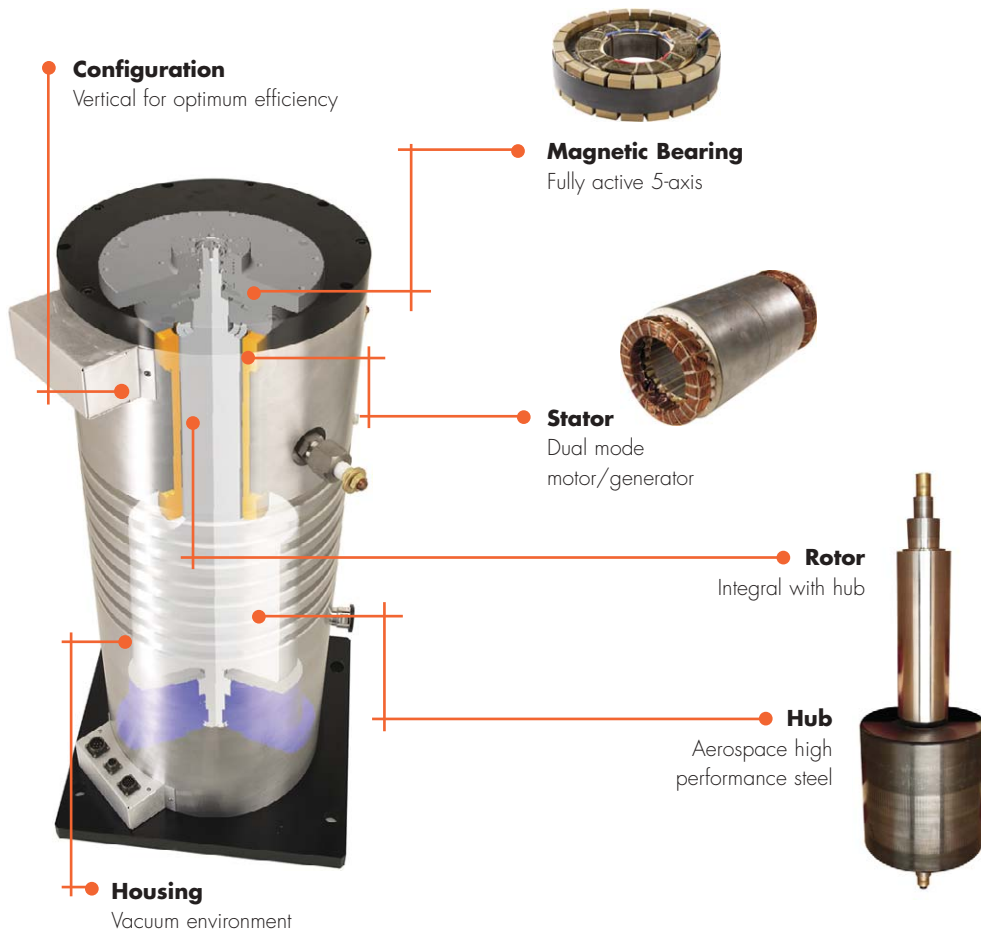




DIRECT CONNECT VDC140

BREAKTHROUGH FLYWHEEL TECHNOLOGY.
RELIABLE, ON DEMAND POWER.

The VYCON flywheel stores kinetic energy in the form of a rotating mass and is designed for high power, short discharge applications. VYCON's patented high-speed motor/generator and contact-free magnetic bearings levitate and sustain the rotor during operation. These breakthrough technologies enable the VYCON flywheel to charge and discharge at high rates for countless cycles making conventional technologies obsolete.



Supports a typical
150 kVA (0.8 pf) UPS

Parallel operation for UPS
above 150 kVA

Reliable on demand power for:

- Generator set ride-through
- Battery replacement
- Battery hardening
- Glitch protection

Features:

- Low maintenance
- Environmentally friendly
- Small footprint
- Solid-state reliability
- Charge/discharge cycle every 15 minutes
- DSP controls
- Simple installation

VYCON DIRECT CONNECT VDC140

140 kW 15 Second Ride Through DC Power Source

Specifications

Rated Power	140 kW
Duration	15 seconds
Useable Energy Storage	2244 kW-sec max.
Flywheel Rotational Speed	36 to 24 kRPM

Input

Input Voltage	420–600 VDC
Recharge Rate	Factory Adjustable* per application 12 minutes typical
Stand by losses	2000 watts

Output

Voltage Discharge	400–500 VDC** Adjustable per application
Voltage Regulation	+/- 1%
DC Ripple	less than 2%

Environmental

Operating Temperature	-4°F to 104°F (-20°C to 40°C)
Humidity	95% non-condensing
Altitude	5,000 ft. max without derating
Audible Noise	66 dBA at 3.3 ft. (1m)

Dimensions and Weight

Height	78.0 in. (1981 mm)
Width	48.0 in. (1219 mm)
Depth	24.0 in. (610 mm)
Weight	1922 lbs. (872 kg)

* Dependent upon UPS recharge rate **Derated below 480 VDC



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