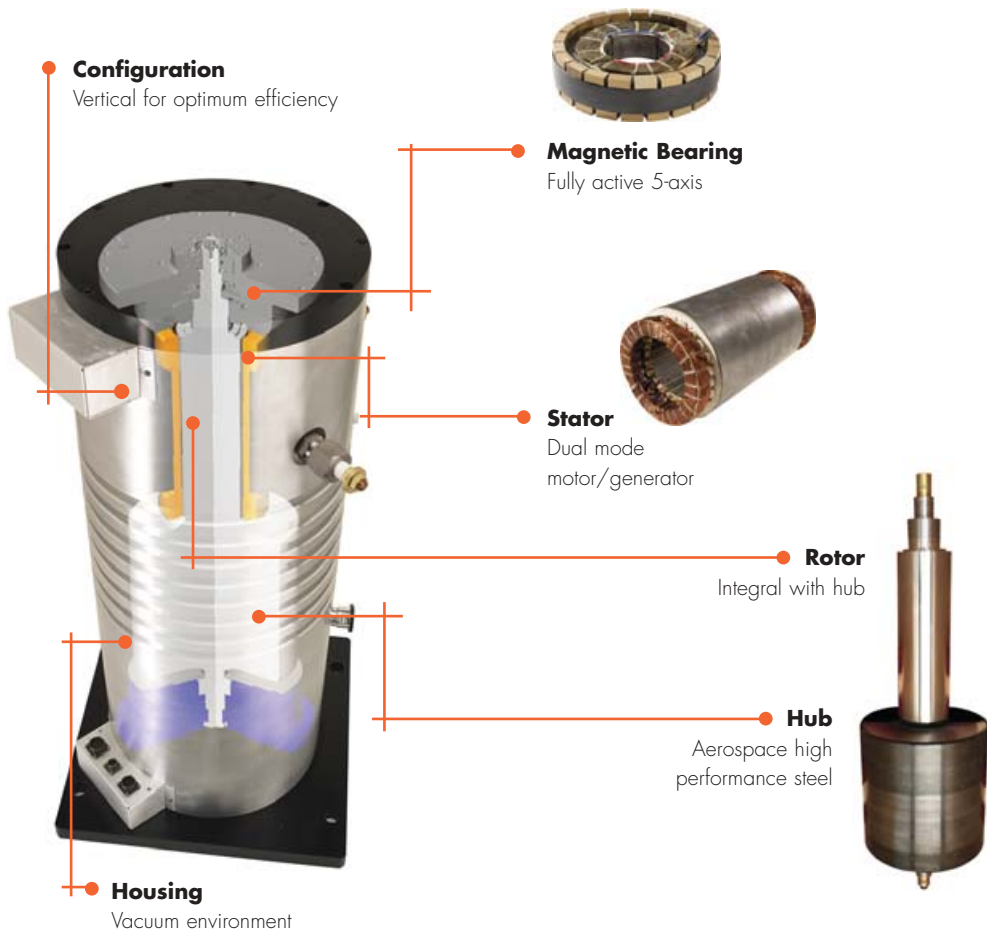




DIRECT CONNECT VDC-XE

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.



Single VDC-XE unit supports a typical 300kVA (.8 pf) UPS

Parallel additional VDC-XE units for UPS Above 300kVA

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 VDC-XE

200kW, 15 Second Ride Through DC Power

Specifications

Power / Duration Ratings

Max Power	300kW / 6 seconds (1800kW-sec)
Max Energy	200kW / 15 seconds (3000kW-sec)
Flywheel Rotational Speed	36 to 18.5k RPM

Input

Input Voltage	400 – 600 Vdc
Recharge Rate	2 to 10 minute typical Adjustable per application
Efficiency	99%

Output

Voltage Discharge	350 – 520 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 de-rating
Audible Noise	< 66dBA at 3.3 ft. (1M)

Dimensions and Weight

Height	73.7 in. (1872mm)
Width	30.0 in. (762mm)
Depth	30.0 in. (762mm)
Weight	1822 lbs. (826kg)

VDC-XE Run Times

(.9 Output PF, 80% Full Load Rating, 96% Inverter Eff.)

Number of Flywheels	UPS Output Power Rating											
	40	60	80	100	120	160	225	275	450	550	750	1100
1	99.8	66.7	50.0	40.0	33.3	25.0	17.8	13.9				
2				80.0	66.7	50.0	35.6	29.1	17.8	13.9		
3						75.0	53.3	43.6	26.7	21.8	16.0	
4								58.2	35.6	29.1	21.3	13.9
5										36.4	26.7	18.2



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