KRAFT POWERCON

UMD™ SYSTEM

SEAMLESS BACKUP POWER SOLUTION

for 100% availability and reliability of motors and critical loads

ROTATING EQUIPMENT

Critical industrial applications such as oil & gas facilities, chemical industries, power generation and electrical infrastructure require the highest level of availability and reliability.

Therefore, 100% availability and reliability is essential for rotating equipment such as pumps, fans and other loads. AC UPS and DC Motor based-backup systems are not suitable or reliable backup solutions for rotating loads. KraftPowercon's Uninterruptible Motor Drives solution UMD™ is the most effective solution to secure motor loads and other static loads.

Our solutions are designed for motors in power generation, oil and gas industry and other industrial applications – sometimes in tough environments and harsh conditions.

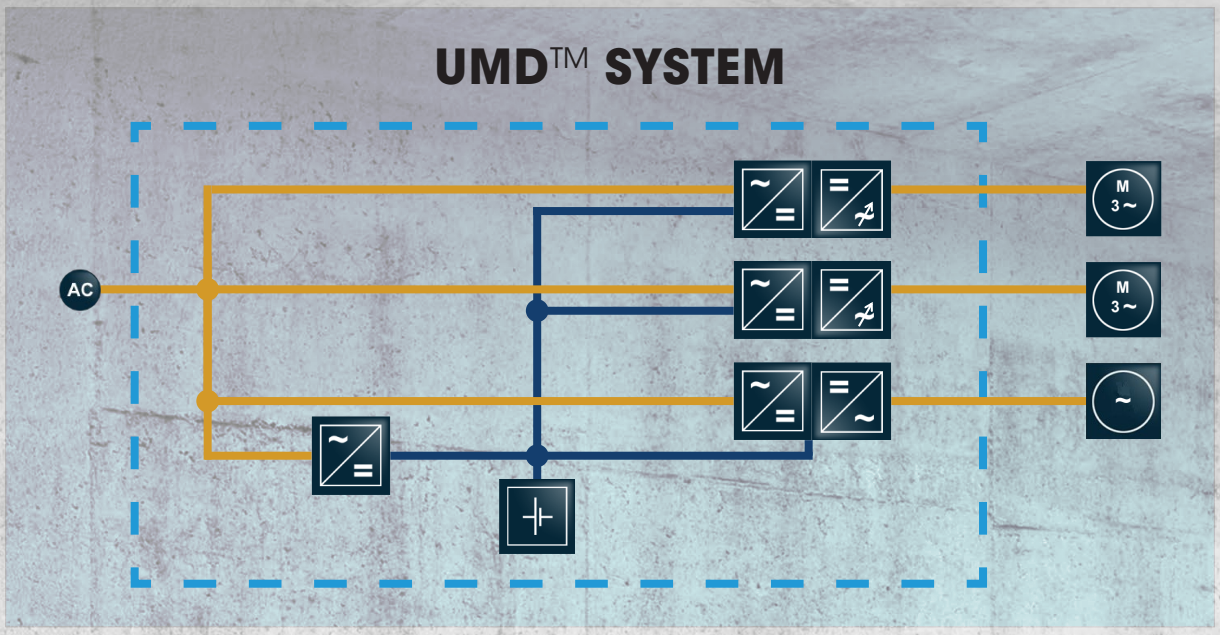
To find out more, visit
KRAFTPOWERCON.COM

UMD™ SYSTEM

The best and proven concept to uninterruptible power your motor

Each UMD™ system is uniquely designed and built to fit the backup power requirements for your motor and non-motor loads. It is built with proven world-class components and delivered as a factory tested system, meets the standards and project specific environmental requirements. The system provides 100% reliability and availability for your motor and non-motor loads.

UMD™ SYSTEM



Full availability

UMD™ provides continuous operation of 3-phase AC motors, with no interruption during utility power disturbances. In normal operation the Variable Frequency Drive (VFD) is supplied from mains. During a brown out or mains outage the VFD is powered from a battery connected directly to the DC-bus of the VFD. The transition between the power sources is completely seamless, meaning no speed drop during any disturbances of the mains supply.

Eliminates Single Point of Failure

The UMD™ system is designed to remove all Single Points of Failure. Traditional UPS systems must be doubled or excessively oversized to achieve the same safety level.

In-line Integrated VFD's allow precise motor control

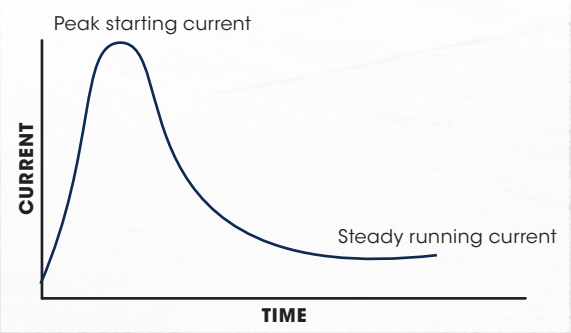
UMD™ utilizes field-proven, high-quality VFD's. All the advantages of VFD operation also applies to the UMD™. That includes: limiting start currents, starting at maximum torque, precise speed control, energy savings etc. At Direct On Line start of an induction motor, the inrush current can be up to 9 times of the nominal current. The UMD™ with its internal VFD solves the problem and realize the motor's full potential.

UMD™ adds blackstart capabilities

When a motor operation is backed up by traditional UPS systems, starting up often relies on the availability of utility power. When secured by UMD™, the motors can start up without utility power. This can be done with full torque and full speed as normal start-up. There is no need for a bypass or alternative mains to handle the starting current. Absence of utility power poses no limitations for blackstart.

Complete factory tested UMD™ system

UMD™ is delivered as one complete MCC-unit. Type tested according to IEC, UL, CSA and other applicable standards. The system has single or redundant mains input breakers, battery charger, AC and DC busbars, and the required motor drive outputs. In addition, it can be extended to backup all AC and DC auxiliary loads.



KRAFT POWERCON

UMD™ SYSTEM

When investing in our first class products, we commit to support you during the full lifetime. It doesn´t matter if you only have a question about functionality or need fast troubleshooting and repair on site – We won´t let you down! – Read more about our service and life cycle management concepts ensuring easy and cost efficient operation at **kraftpowercon.com**

UMD™ TECHNICAL DATA

Input	Voltage	3x208V to 3x600V AC
	Voltage range	Up to +/- 20%
	Frequency	45Hz - 65Hz
	Earthing system	TN, IT
Battery	Battery voltage	440V DC
	Battery type	Lead Acid, VRLA, Ni-Cd
	Battery lifespan	12+ years
Output	Rated power	2.2kW - 400kW
	Voltage	3x208V - 3x600V AC
	Type	Sinusoidal
	Voltage range	+/- 5%
	Frequency	0Hz - 400Hz
	Motor cable length	< 300m
Environment	Enclosure	IP21, IP42, IP54, NEMA 1
	Temperature	0-50°C
	Seismic design	IEEE 693, high level
Standards	Approvals	UL, CSA, IEC UL
Options	• Redundant Battery and Charger • Analog motor speed control • Long motor cables (>300m)	

KRAFT POWERCON

KraftPowercon, established in 1935, is a global company with production in Sweden, China and India. Our innovative solutions, products and services within industrial power supply secure processes and provide a number of business benefits to our customers. We work actively towards eliminating waste and taking care of the scarce resources of our world, while improving the performance and efficiency of our products and solutions. This to fulfil our brand promise — we won't let you down.

For more information on our products and technical specifications, please visit our website: **kraftpowercon.com.**