



**KRAFT
POWERCON**

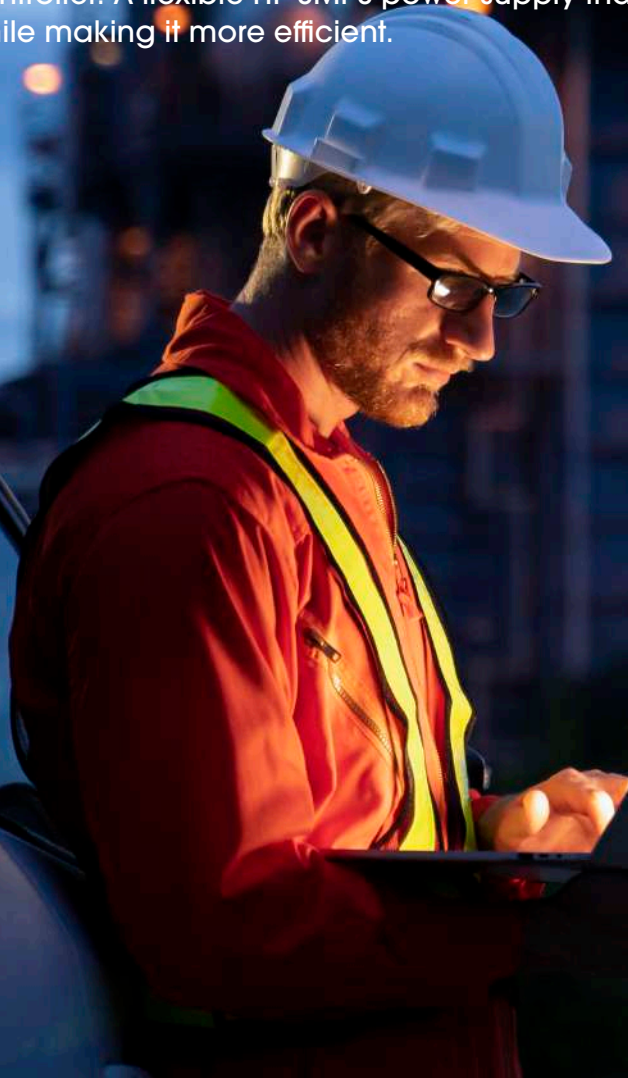


SmartKraft² – efficient ESP power supply

With **MicroKraft⁴** controller for easy operation

Compact ESP power supply at your fingertips

Stricter emissions regulations or an increase in load doesn't have to mean costly mechanical extensions. **SmartKraft 2** delivers high output from a small, efficient, and cost-effective power supply unit, easily controlled by the smart **MicroKraft 4** ESP controller. A flexible HF-SMPS power supply that gives you full control of your ESP while making it more efficient.



Full ESP efficiency control with MicroKraft 4

The intelligent controller logic of **MicroKraft 4** automatically adjusts the power level to load changes, which helps to reduce stack emissions and lower operational costs. This means you can trust your ESP to always perform optimally, without worrying about manual interventions.





SmartESP™ automates optimization

MicroKraft 4 comes with **SmartESP™** – an autopilot for your ESP. Set the performance you want and **SmartESP™** will maintain it during operation by automatically adjusting the power to load changes. This way, **SmartESP™** helps you optimize power consumption with a minimum of manual interventions.



Easy operation

You can operate the **SmartKraft 2** remotely, from your control room, or through the 7” touch panel on or inside the cabinet. And by determining ESP performance through V/I graphs you can plan actions to optimize performance.



Boosts your ESP

SmartKraft 2 makes your ESP more efficient. That means you reduce the need of costly mechanical extensions to increase your capacity or meet stricter emissions regulations.



Remote monitoring

Monitor, control, and analyze data from your ESP remotely. Minimize maintenance needs with remote troubleshooting through logged data. **MicroKraft 4** supports easy communication with your DCS using any industrial communication protocol without external converter.



Fits everywhere

SmartKraft 2 has high power density. Weighing less than 750 kg, yet featuring a small and compact design, it gives you the power you need without taking up costly space. The all-in-one casing is suitable for outdoor use, so there is no need for an electrical room area.



More efficient than ever

Three-phase mains supply gives high power factor and, by operating close to the margin, the **SmartKraft 2** gives you more power than any other ESP power supply. **SmartKraft 2** also works with a high charge of particles and low ripple in the output voltage, giving higher dust removal efficiency.

FEATURES AND BENEFITS

More SmartKraft 2 models now available

All-in-one, compact and lightweight

SmartESP™: Automatic control of ESP power supply parameters

Increased charge on particles and high efficiency

V/I graph

Intermittent energization mode

Simple oscilloscope function

Spark control

Bootloader and upgrade of firmware via USB

Back corona control

Remote monitoring via internet

Rapper control

Supports most industrial communication protocols for remote control function

Control mode for both voltage and current

Datalogger

Supports any language by request

Export data, setting parameters and oscilloscope waveform to the flash memory

CO and voltage reduction

SoftPLC/DAQ function, no limit to number of customized IOs

Opacity control

Individual program can be saved with different settings

Save time setting up

● New in SmartKraft 2



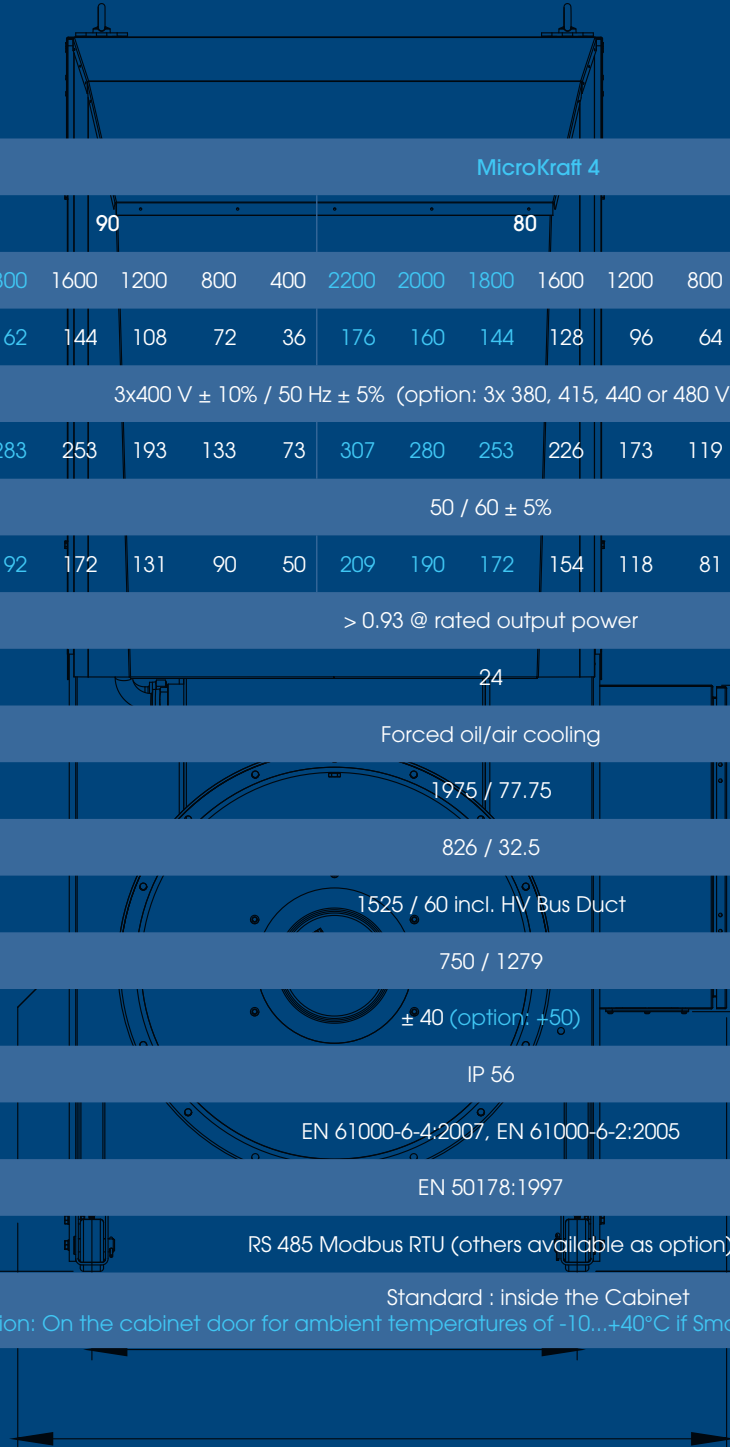
Reduce emissions and control your power consumption

Tougher legislation will force you to further reduce emissions. **SmartKraft 2** lets you meet and exceed tomorrow's purification demands, while reducing power consumption.



TECHNICAL DATA

Controller type	MicroKraft 4																	
Typical output voltage (others available on request)	90					80					70					kV DC		
Typical output current (others available on request)	2000	1800	1600	1200	800	400	2200	2000	1800	1600	1200	800	2200	2000	1800	1600	1200	mA DC
Output power	180	162	144	108	72	36	176	160	144	128	96	64	154	140	126	112	84	kW
Input line voltage / frequency	3x400 V ± 10% / 50 Hz ± 5% (option: 3x 380, 415, 440 or 480 V / 50 or 60 Hz)																	V AC
Input line current	313	283	253	193	133	73	307	280	253	226	173	119	270	247	223	200	153	A AC
Input line frequency	50 / 60 ± 5%																	Hz
Input apparent power	213	192	172	131	90	50	209	190	172	154	118	81	184	168	152	136	104	kVA
Efficiency	> 0.93 @ rated output power																	
Operating frequency	24																	kHz
Cooling	Forced oil/air cooling																	
Height	1975 / 77.75																	mm/in
Width	826 / 32.5																	mm/in
Length	1525 / 60 incl. HV Bus Duct																	mm/in
Weight	750 / 1279																	kg/lb
Ambient temperature	± 40 (option: +50)																	°C
Degree of protection	IP 56																	
EMC conformity	EN 61000-6-4:2007, EN 61000-6-2:2005																	
LVD conformity	EN 50178:1997																	
Communication standard	RS 485 Modbus RTU (others available as option)																	
MK4 Touch Panel	Standard : inside the Cabinet (Option: On the cabinet door for ambient temperatures of -10...+40°C if SmartKraft is placed indoors or under roof)																	



The logo for Kraft Powercon, featuring the word "KRAFT" in a bold, sans-serif font above the word "POWERCON" in a similar font. A white, curved line swooshes under "POWERCON" and loops back up under "KRAFT".

KRAFT POWERCON

KraftPowercon is a global company with production facilities in Sweden, China and India. We offer innovative solutions, products and services within industrial power supply that secure your processes, and give you a number of business benefits. We are a fast-moving industrial company and a learning organisation working towards eliminating waste and taking care of the scarce resources of this world, while constantly improving the performance and efficiency of our products in order to fulfil our brand promise: we won't let you down.

More information on our products and technical specifications:
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