

Power Systems

Power Stack: 100KW - 3MW+

- AC/DC Power Supplies
- DC/DC Converters
- UPS
- Battery Chargers
- Inverters
- Frequency Converters
- Custom Drives



- 100KW to 3MW+ full power converter systems
- Wind Turbines with Permanent Magnet Synchronous Generator
- Newest state-of-the-art IGBT's
- High reliability capacitors
- 97% efficiency
- High MTBF
- Ruggedized for harsh environments

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Control Unit NC2100	
Feature	Description
Description	Control unit control of frequency inverters
Control algorithms	Induction machines, Synchronous machine, Windmill inverter Cranes, Extruder, Line inverter and others, Free programmable control and logic functions integrated
Control frequency	Up to 20kHz
Control accuracy	Torque ripple 0.5%, control stability <0.5%
Interfaces	Analog IO, Digital IO, speed sensors (incremental, incremental encoder, resolver, ...)
Field bus	CANopen, Profibus RS232, RS484
PWM interface	Fiber optic system
Inverter slots	Up to 10 parallel power stacks, Up to 2 breaking chopper slots
Environmental conditions	According to EN50178 (Overvoltage class III, degree of pollution 2 EMC according to EN61000-6-4 and EN61000-6-2 IP20)

Power Stack NC1500	
Feature	Description
Description	Power stack in 2-level IGBT inverter topology
Input / Output	AC: 400V up to 690V, 3phase system; DC: 600 up to 1100V
Rated Current	Up to 650A
Overload Capability	Up to 800A
Modulation Frequency	Adjustable from 2 up to 10 kHz, Typically 4 kHz
Cooling	Liquid cooled, 20l/min (typ.)
Ambient Temperature	-10 up to 40°C with rated power, Up to 55°C with derating (2% / K)
PWM Interface	Fiber optic system
Environmental Conditions	According to EN50178 (Overvoltage class III, degree of pollution 2 EMC according to EN61000-6-4 and EN61000-6-2 IP20) IP00, humidity up to 95%, non-condensing)
Efficiency	97% (typ.)

Chopper Module NC1600	
Feature	Description
Description	IGBT breaking chopper module
Chopper level	Adjustable up to 1400V
DC Voltage	1500V max.
Current	Max. 2400A (max. 5s)
Interface	Fiber optic system
Cooling	Liquid cooled, 20l/min (typ.)
Ambient Temperature	-10 up to 55°C with rated power
Environmental Conditions	According to EN50178 (Overvoltage class III, degree of pollution 2 EMC according to EN61000-6-4 and EN61000-6-2 IP00, humidity up to 95%, non-condensing)

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