

Clean Tech Inverter Data Sheet

Advantages

The CTI is a breakthrough innovation for industrial process heating technology.

- Modular base design offers wide power range - 250 kW to 10MW units available.
- Frequency range from 20kHz to 120kHz.
- Low downtime with readily swappable modules

Latest SiC transistor technology and proprietary digital control algorithms ensure optimal performance and maximum efficiency across the entire frequency range.

- Durable and reliable design with built-in tuning, safety and diagnostics features.



Features

- Precise power control from 0% to 100% of rated power
- Precise output frequency control within frequency range
- Output regulation: power, current or frequency
- Parameter Monitoring: Current, DC Volts, Output Volts, Output Power, Frequency
- Advanced and intuitive user interface – includes all external control and Start/Stop functionality
- Automatic frequency scanning and load tuning
- Fast dynamic response and ramp-up time for short heating cycles
- Built-in temperature monitoring
- Remote or local control modes
- Fiber-optics or ethernet or wireless for control, firmware upgrades, and data of process and operating parameters

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Specifications

System Models	CTI 250	CTI 500	CTI 1000	CTI 2000	CTI 10K
Output Power (kW)	250 kW	500 kW	1 MW	2 MV	10 MW
Output Frequency (kHz)	10-120	10-120	10-120	10-120	10-120
Input Power*	AC or DC	AC or DC	AC or DC	AC or DC	AC or DC
AC Input Power* (50/60Hz)	380V/480V/600V 3 Phase 380A/300A/240A 1.0 pf	480V/600V 3 Phase 600A/480A 1.0pf	600V/4160V 3 Phase 960A/140A 1.0pf	600V/4160V 3 Phase 2000A/275A 1.0pf	4160V/13,800V 3 Phase 1400A/420A 1.0pf
DC Input Power*	600/900V 420A/275A	600/900V 830A/560A	900/1200V 1110A/830A	1200V 1675A	1200/1700V 8330A/5900A
Dimensions (cm) WxDxH	46.1×36.2×40.2" (117×94×102)	46.1×36.2×40.2" (117×94×102)	46.1×36.2×79.9" (117×94×203)	92.1×36.2×79.9" (234×94×203)	183.9×36.2×79.9" (1168×94×203)
Cooling	Liquid	Liquid	Liquid	Liquid	Liquid

* Location and application specific