

ARTISAN®
TECHNOLOGY GROUP

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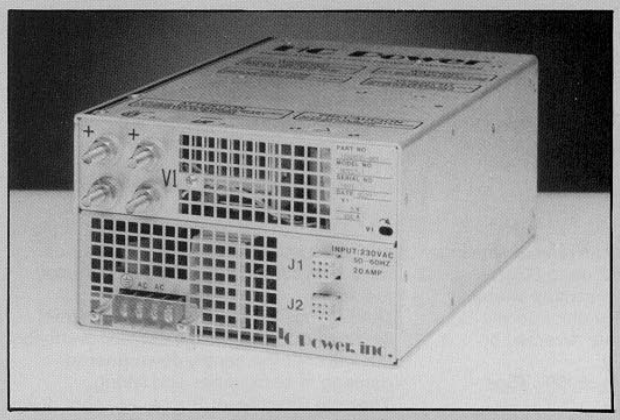
- Critical and expedited services
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Expert team | Trust guarantee | 100% satisfaction

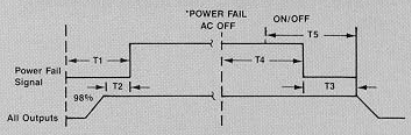
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Visit our website - *Click HERE*

HCT21 SERIES
2000W Hi-Reliability MOSFET Switchers



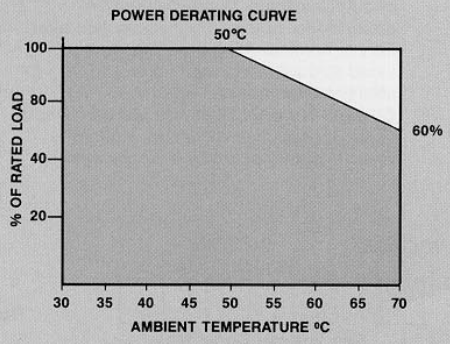
- 3 Phase Power Factor Correction
- .92 Power Factor
- Power MOSFET Design
- Current Mode Control
- Unique Two-Stage Current Limit
- Absolute Current Sharing
- No Minimum Load Required



T1 <0.5 Sec
T2 >10 MSec
T3 >5.0 MSec
T4 ≥ 20 MSec
T5 <5.0 MSec after application of remote ON/OFF Control or Overtemp

Power fail sink current = 50 MA. Source current from 3.3K pull up resistor to +5V if desired.

*Power fail signal is floating (open collector and emitter thru an optical coupler) and can be referenced as desired.



Dedicated to the design & manufacture of high power switchers.

HCT21 SERIES			2000 WATTS, SINGLE OUTPUT	
OUTPUTS	MAIN 1 VDC@A	V2 VDC@A	V3 VDC@A	V4 VDC@A
SINGLE	2 @ 400 3.3 @ 400 4.5 @ 400 5 @ 400 5.2 @ 380 12 @ 167 15 @ 134 18 @ 111 24 @ 84 28 @ 72 36 @ 56 48 @ 42	N/A	N/A	N/A

All specifications and data subject to change without notice.

HC Power, inc.

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HCT21 SERIES SPECIFICATIONS

INPUT SPECIFICATIONS
AC Input Range: 180-264 VAC, 47-63 Hz, three phase.
Power Factor: .92 typical (.90 minimum at 1/2 load or greater.)
Inrush current: Limited to 40A RMS maximum for 20 milliseconds.
Fusing: All units are fused internally.
Line Transient: Meets ANSI C62.41 (Formerly IEEE-587-1980).

OUTPUT SPECIFICATIONS
Output Power: 2000 watts.
Number of Outputs: 1. (See table)*.
Voltage Adjust Range: ± 10%
Load Regulation: 0.2% no load to full load.
Line Regulation: 0.2% over full input range.
Ripple and Noise: 1% or 50 mV, whichever is greater, when measured at the power supply terminals with a 20 MHz scope.
Hold Up Time: The outputs will remain in regulation for 20 milliseconds after loss of nominal AC power.
Turn On Delay: Under full load conditions the output will be in regulation in less than 500 milliseconds.

Transient Response: The output will recover to 1% regulation within *100* microseconds from a step load change of 25%. No overshoot or undershoot at turn-on or turn-off.
Output Polarity: The output is floating and may be referenced as desired by the user.
Minimum Load: *No* minimum loading is required.

LOGIC AND CONTROL
Remote Sense: Output has remote sensing which will compensate for up to 500 MV load cable loss. Output is sensed internally if a sense line is open. No damage will result if the sense lines are reversed or shorted.
Remote Margin: ± 3% to ± 10%. (See installation instructions.)
Remote Inhibit: Standard.
AC Power Fail Warning: A logic signal is provided at least 5 milliseconds before loss of output voltage. Signal will not be activated for at least 20 milliseconds after loss of nominal AC power. Signal is provided through an opto-coupler and may be referenced as desired.
Current Sharing: Standard feature. Outputs of similar supplies will share within 5% when interconnected by a single wire.

Current Monitor: Calibrated voltage proportional to the output current of V1. 1V (± 5%) at full load.
DC-OK: Optional Form "C" relay is activated when the output drops 5% below nominal. (10% for 2V outputs).

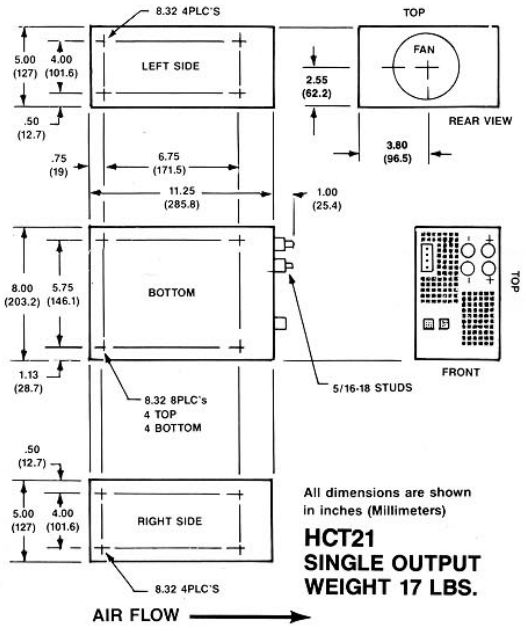
PROTECTION
Over Voltage Protection: Standard. If the output exceeds the nominal voltage by 20-30%, the OVP circuit will be activated and will turn the output off. AC input or remote on/off must be recycled to restart the supply.
Over Current: Unique two-stage current limit circuit allows for momentary overloads but will shut the supply down prior to damage to backplanes and wiring.
Thermal Shutdown: Supply will shut down if the internal temperature reaches an unsafe operating level. Restart is automatic when the supply returns to the normal operating range.
Reverse Polarity: Output protected against reverse voltage up to the maximum current rating.

ORDERING INFORMATION

Model **HCT21** – [ ] – [ ] [ ] [ ]
VOLTAGE V1 (See Voltage Code Table) — OPTIONS (In Alpha Order)

Option Codes: D = DC-OK
M = Power Supply OK
R = Reverse airflow.

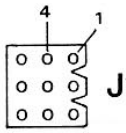
Note: HC POWER can configure power supplies for your specific requirements. Please contact the factory.



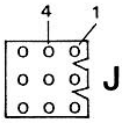
All dimensions are shown in inches (Millimeters)

HCT21
SINGLE OUTPUT
WEIGHT 17 LBS.

VOLTAGE CODE TABLE			
0 = 2 Volts	1 = 5 Volts	3 = 15 Volts	6 = 28 Volts
E = 3.3 Volts	H = 5.2 Volts	4 = 18 Volts	7 = 36 Volts
G = 4.5 Volts	2 = 12 Volts	5 = 24 Volts	8 = 48 Volts



J1-1 = V1 + sense
J1-2 = V1 margin
J1-3 = +5V reference
J1-4 = V1 – sense
J1-5 = Power fail RTN
J1-6 = Remote ON/OFF
J1-7 = Remote ON/Off pull up
J1-8 = Power fail
J1-9 = Power fail pull up



J2-1 =
J2-2 = V1 current monitor (+)
J2-3 = V1 current monitor (–)
J2-4 =
J2-5 = V1 current share
J2-6 =
J2-7 = +5V logic (50 MA)
J2-8 =
J2-9 = N/C

MOLEX P/N 03-06-1091
MOLEX MATING P/N 03-06-2092
MOLEX MALE PINS P/N 02-06-2103

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