

HTK300-C Series

300 Watt Enclosed with Fan Power Supply
Single Outputs ranging from 3.3~54 VDC



Product Features:

- 300 Watt Single Output Switcher
- Universal AC Input with Active PFC
- Full-Featured Status & Control Signals
- Redundant Operation Capable
- Measures 8.00 x 4.00 x 2.00"
- Multiple Input Connector Options:
 - IEC-320 Inlet (optional Switch)
 - Terminal Block (optional Switch)
- Multiple Output Connector Options
 - Quick-Connect / Molex Connections
 - Terminal Block Connections
 - Euro Strip Connections
- 700k hours MTBF per Belcore SR-332
- International Safety Approvals & CE Mark



INPUT SPECIFICATIONS:

VOLTAGE	Universal AC Input (90-264 VAC)
FREQUENCY	47-63Hz
INRUSH	<60A @ 230 VAC, 60 Hz, Full Load
CURRENT	5A @ 90 VAC Continuous, Full Load
PROTECTION	Single 7A Fuse, Fast blow type
LEAKAGE	<3.5mA
HOLD-UP	20ms @ >85 VAC
EFFICIENCY	80% typical, full load, 230 VAC
HARMONICS	EN61000-3-2 Class D Compliant

GENERAL SPECIFICATIONS:

OPERATING TEMPERATURE	0 ~ +70°C (Derate linearly from 100% load at 50°C to 50% load at 70°C)
STORAGE TEMPERATURE	-20°C ~ +85°C
COOLING	24CFM (internal ball bearing fan)
HUMIDITY	5-90% (non-condensing)
VIBRATION	5-50Hz, Acceleration $\pm 7.35\text{M/s}^2$ (3 axes)
SHOCK	20G Peak Acceleration
RELIABILITY	>150,000 Hours (Per Mil HDBK-217), 700,000 Hours (Per Belcore SR-332)

OUTPUT SPECIFICATIONS:

MINIMUM LOAD	None
ADJUSTMENT RANGE	Set at factory
LINE REGULATION	<1.0% over entire input range, full load
LOAD REGULATION	<1.0% from no load to maximum load
TEMP REGULATION	<0.02%/°C or 1mV/°C whichever is greater
RIPPLE	<1±% (20MHz)
SETPOINT ACCURACY	1% (maximum)
OVER CURRENT	110-135% (Auto-Recovery)
OVER VOLTAGE PROTECTION	125-135%

EMISSIONS:

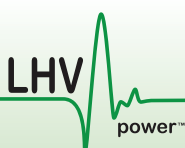
EMISSIONS	EN55022/ CISPR 22 Class B (Conducted)
ELECTROSTATIC DISCHARGE	EN61000-4-2, 8kV, Level 4
RADIATED SUSCEPTIBILITY	EN61000-4-3, Level 3
EFT / BURSTS	EN61000-4-4, $\pm 4\text{kV}$, Level 4
SURGES	EN61000-4-5, 2kV Earth, 1kV Line-Line, Class 3
CONDUCTED IMMUNITY	EN61000-4-6, 0.15-800MHz, 10V 80%
VOLTAGE DIPS	EN61000-4-10, 95% Dip & 10ms, 30% Dip & 500ms
VOLTAGE INTERRUPTIONS FLUCTUATIONS & FLICKER	EN61000-4-11, 95% reduction, 5ms EN61000-3-3

STATUS & CONTROL SPECIFICATIONS:

REMOTE SENSE	Compensates for up to 65mV Drop
REMOTE ON/OFF	Low or open circuit to enable output
POWER GOOD	High Signal indicates DC Output is on and within regulation
CURRENT SHARE	Single Wire, $\pm 10\%$ accuracy (optional)
CURRENT MONITOR	0.5V to 3.0V signal changes linearly to represent 0% load to 100% load
STANDBY POWER	5.0V @ 0.3A
FAN FAIL	Power Good Signal will indicate a fan failure

SAFETY STANDARDS:

CE MARK	Low Voltage Directive, 89/336/EEC
UL/CUL	1950 / 22.2 # 234
TUV	EN60950-1
CB REPORT	IEC60950-1



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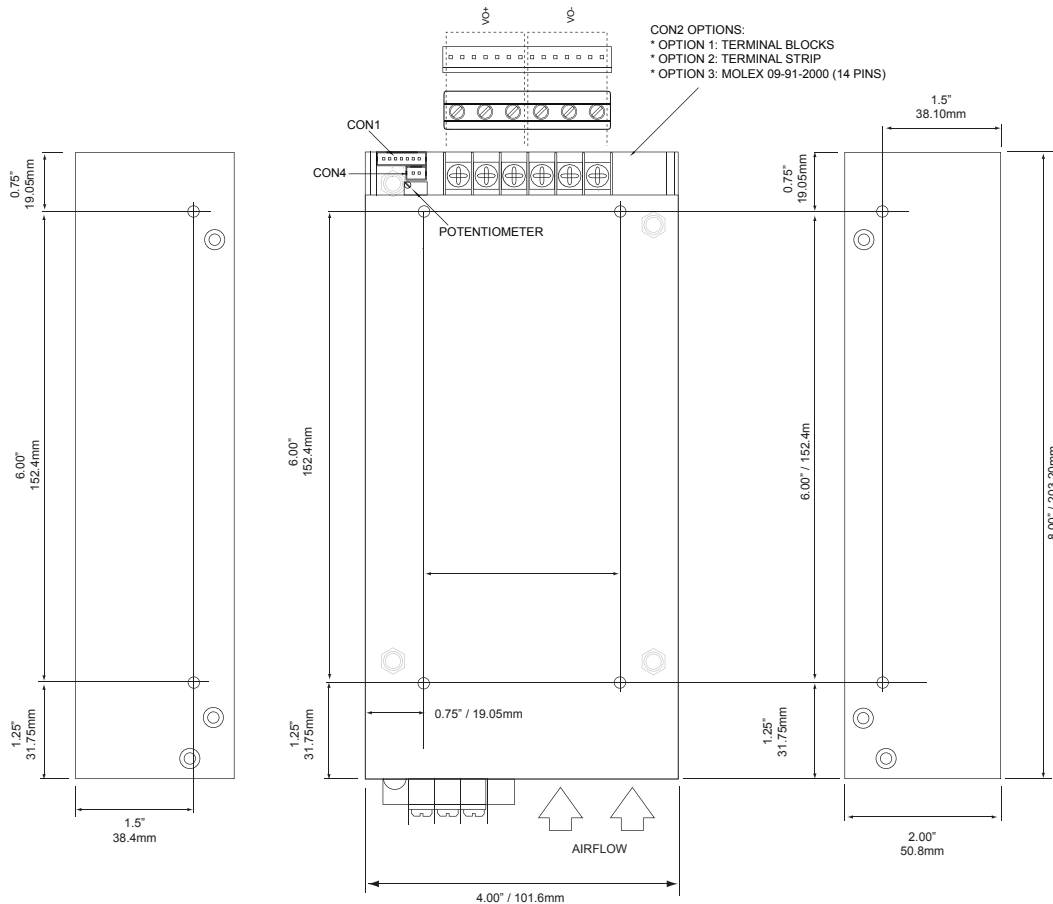
PART #	INPUT	V1 / A1	NOTE
HTK300-3.3Cyz	100-240	3.3V 60A	72A peak (3ms)
HTK300-05Cyz	100-240	5V 60A	72A peak (3ms)
HTK300-09Cyz	100-240	9V 33.4A	40A peak (3ms)
HTK300-12Cyz	100-240	12V 25A	29A peak (3ms)
HTK300-15Cyz	100-240	15V 20A	23A peak (3ms)
HTK300-18Cyz	100-240	18V 16.5A	19A peak (3ms)
HTK300-24Cyz	100-240	24V 12.5A	14A peak (3ms)
HTK300-28Cyz	100-240	28V 10.5A	12.6A peak (3ms)
HTK300-30Cyz	100-240	30V 10A	12A peak (3ms)
HTK300-36Cyz	100-240	36V 8.2A	9.8A peak (3ms)
HTK300-48Cyz	100-240	48V 6.2A	7.5A peak (3ms)
HTK300-54Cyz	100-240	54V 5.6A	6.6A peak (3ms)

Define Front Panel Type, Replace "y" with

- 1 = IEC inlet only 2 = Terminal block only
3 = power switch + IEC inlet 4 = power switch and terminal

Define Output Connector Type, Replace "z" with:

- 1 = Terminal Block
2 = Terminal Strip
3 = Mates with Molex 09-91-1200 (14 pins)



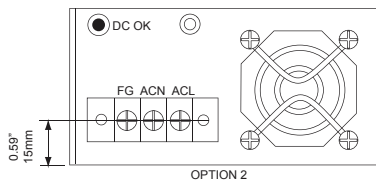
CON2 OPTIONS:
• OPTION 1: TERMINAL BLOCKS
• OPTION 2: TERMINAL STRIP
• OPTION 3: MOLEX 09-91-2000 (14 PINS)

Connector 1:
Mates with JST P/N :B7B-PH-K

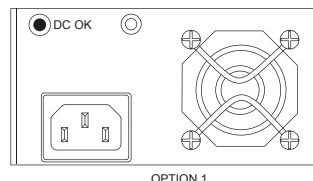
Pin#	Description
1	Inhibit
2	Remote Sense +
3	Power Good +
4	Current Monitor
5	Current Share
6	5VSB
7	RS -

Connector 4:
Mates with JST B2B-PH-K

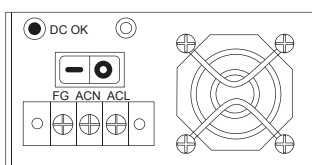
Pin #	Description
1	+Aux Fan
2	Return



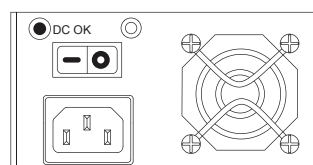
OPTION 2



OPTION 1



OPTION 4



OPTION 3



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Mouser Electronics

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