

HTK600-C Series

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



Product Features:

- 600 Watt Single Output Switcher
- Universal AC Input with Active PFC
- Full-Featured Status & Control Signals
- Measures only 9.17 x 4.29 x 2.50"
- Multiple Input Connector Options:
 - Terminal Block (plus optional switch)
 - IEC-320 Inlet (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	<70A @ 230VAC, 60Hz, Full Load
CURRENT	10A @ 90 VAC Continuous, Full Load
PROTECTION	Single 10A Fuse, Fast blow type
LEAKAGE	<750µA @ 110 VAC, 60Hz
HOLD-UP	20ms @ >85VAC
EFFICIENCY	80-85% typical, full load, 230VAC
HARMONICS	EN61000-3-2 Class D Compliant

OUTPUT SPECIFICATIONS:

MINIMUM LOAD	None
ADJUSTMENT RANGE	Set at factory
LINE REGULATION	<1.0% from 100VAC to 240VAC, 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	125-135%

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, ±10% accuracy
AUXILIARY OUTPUT	+12VDC provided for fan drive
FAN FAIL	Power Good signal will indicate a fan failure
CURRENT MONITOR	0.5V to 3.0V signal changes linearly to represent 0% load to 100% load

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 minimum
HUMIDITY	5-90% (non-condensing)
VIBRATION	5-50Hz, Acceleration ±7.35M/s ² (3 axes)
SHOCK	20G Peak Acceleration
RELIABILITY	>150,000 Hours (Per Mil HDBK-217), 700,000 Hours (Per Belcore SR-332)

EMISSIONS:

EMISSIONS	EN55022/ CISPR 22 Level B (Conducted)
ELECTROSTATIC DISCHARGE	EN61000-4-2, 8kV, Level 4
RADIATED SUSCEPTIBILITY	EN61000-4-3, Level 3
EFT/BURSTS	EN61000-4-4, ±4kV, 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	EN61000-4-11, 95% reduction, 5ms
FLUCTUATIONS & FLICKER	EN61000-3-3

SAFETY STANDARDS:

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



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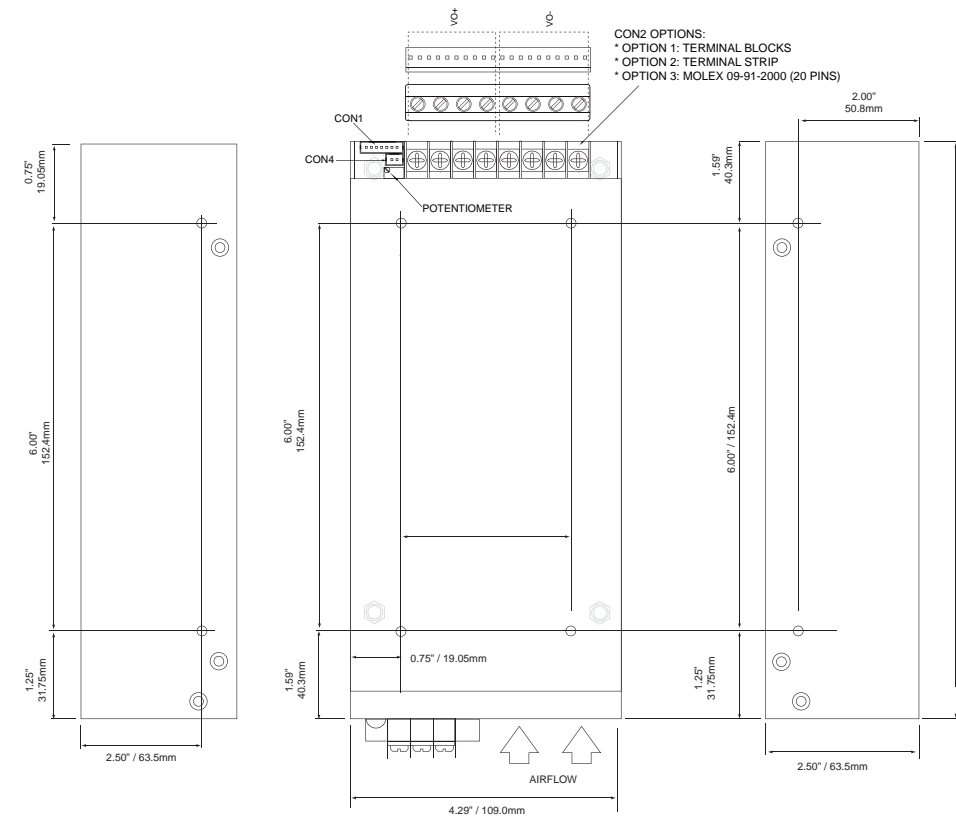
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PART #	INPUT	V1 / A1	NOTE
HTK600-3.3Cyz	86~264	3.3 100	130A peak (3ms)
HTK600-05Cyz	86~264	5 100	130A peak (3ms)
HTK600-12Cyz	86~264	12 50	58A peak (3ms)
HTK600-15Cyz	86~264	15 40	46A peak (3ms)
HTK600-18Cyz	86~264	18 33	38A peak (3ms)
HTK600-24Cyz	86~264	24 25	28A peak (3ms)
HTK600-28Cyz	86~264	28 21	24A peak (3ms)
HTK600-30Cyz	86~264	30 20	23A peak (3ms)
HTK600-36Cyz	86~264	36 16	18A peak (3ms)
HTK600-48Cyz	86~264	48 12	14A peak (3ms)
HTK600-54Cyz	86~264	54 11	12A peak (3ms)

Front Panel Type, Replace "y" with
1 = IEC inlet only
3 = power switch + IEC inlet,

2 = Terminal block only
4 = power switch and terminal block

Output Connector Type, Replace "z" with:
1 = barrier terminal block
2 = euro type terminal block
3 = Molex type connector



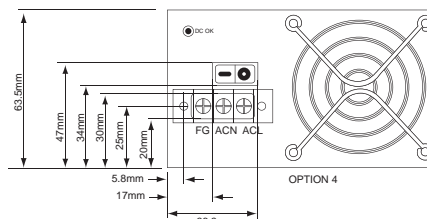
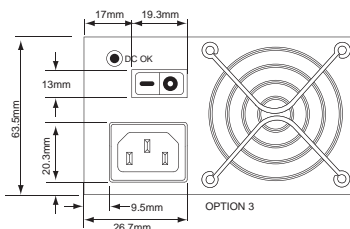
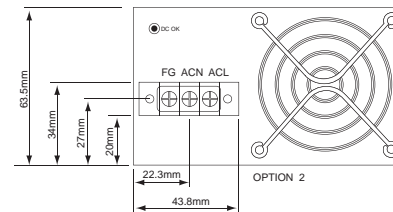
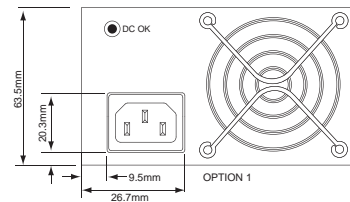
CON2 OPTIONS:
• OPTION 1: TERMINAL BLOCKS
• OPTION 2: TERMINAL STRIP
• OPTION 3: MOLEX 09-91-2000 (20 PINS)

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



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