

# HTK600-C Series

## Product Features:

- 600 Watt Single Output Switcher
- Universal AC Input with Active PFC
- Full-Featured Status & Control Signals
- Redundant Operation Capable
- Measures 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

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



## INPUT SPECIFICATIONS:

VOLTAGE	Universal AC Input (90-264 VAC)
FREQUENCY	47-63Hz
INRUSH	<70A @ 230 VAC, 60 Hz, Full Load
CURRENT	10A @ 90 VAC Continuous, Full Load
PROTECTION	Internal Fuse, Fast blow type
LEAKAGE	<3.5mA
HOLD-UP	20ms @ >85 VAC
EFFICIENCY	85% 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 (from 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% 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 PROTECTION	125-135%

## EMISSIONS:

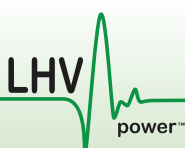
EMISSIONS	EN55022/ CISPR 22 Class B (Conducted)
ELECTROSTATIC DISCHARGE	EN61000-4-2, 8kV, Level 4
RADIATED SUSCEPTIBILITY	EN61000-4-3, Level 3
EFT / BURSTS	EN61000-4-4, $\pm 4\text{kV}$ , Level 4
SURGES	EN61000-4-5, 2kV Earth, 1kV Line-Line, Class 3
CONDUCTED IMMUNITY	EN61000-4-6, 0.15-800MHz, 10V 80%
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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600 Watt Enclosed with Fan Power Supply  
Single Outputs ranging from 3.3~54 VDC

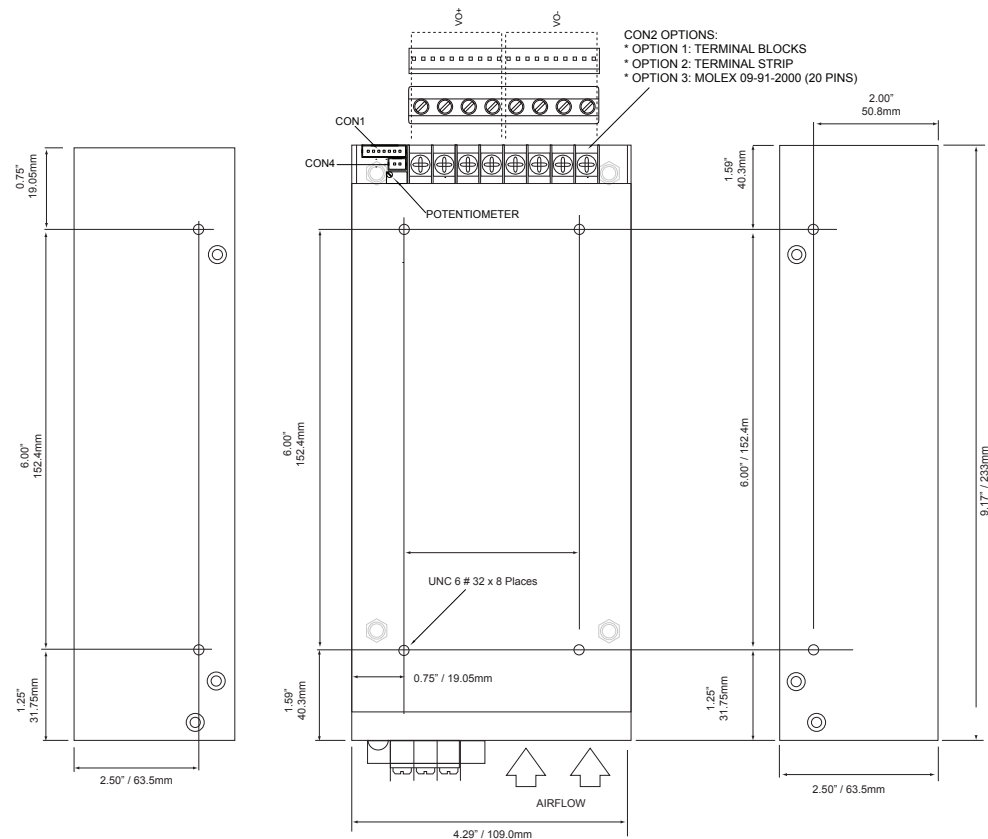
PART #	INPUT	V1 / A1	NOTE
HTK600-3.3Cyz	86-264	3.3V 100A	130A peak (3ms)
HTK600-05Cyz	86-264	5V 100A	130A peak (3ms)
HTK600-12Cyz	86-264	12V 50A	58A peak (3ms)
HTK600-15Cyz	86-264	15V 40A	46A peak (3ms)
HTK600-18Cyz	86-264	18V 33A	38A peak (3ms)
HTK600-24Cyz	86-264	24V 25A	28A peak (3ms)
HTK600-28Cyz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

Front Panel Type, Replace "y" with

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

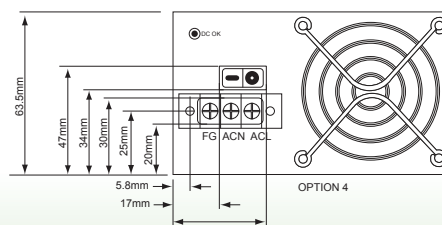
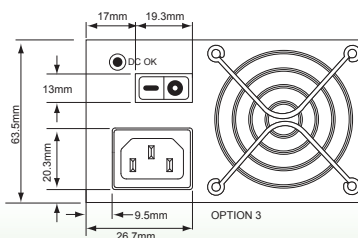
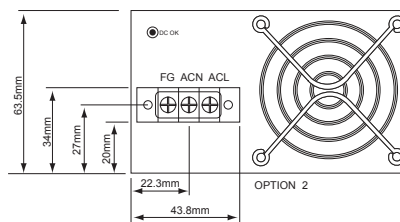
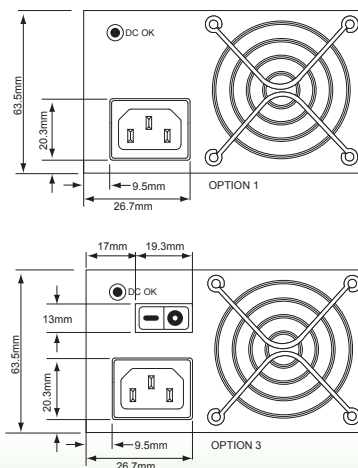


Connector 1:  
Mates with JST P/N :B7B-PH-K

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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