

# HTK600-O Series

600 Watt Open-Frame 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 7.87 x 4.13 x 2.19"
- 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	<750 $\mu$ A @ 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)
SETPPOINT 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, $\pm$ 10% accuracy (optional)
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 $\pm$ 7.35M/s <sup>2</sup> (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, $\pm$ 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



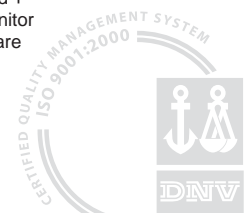
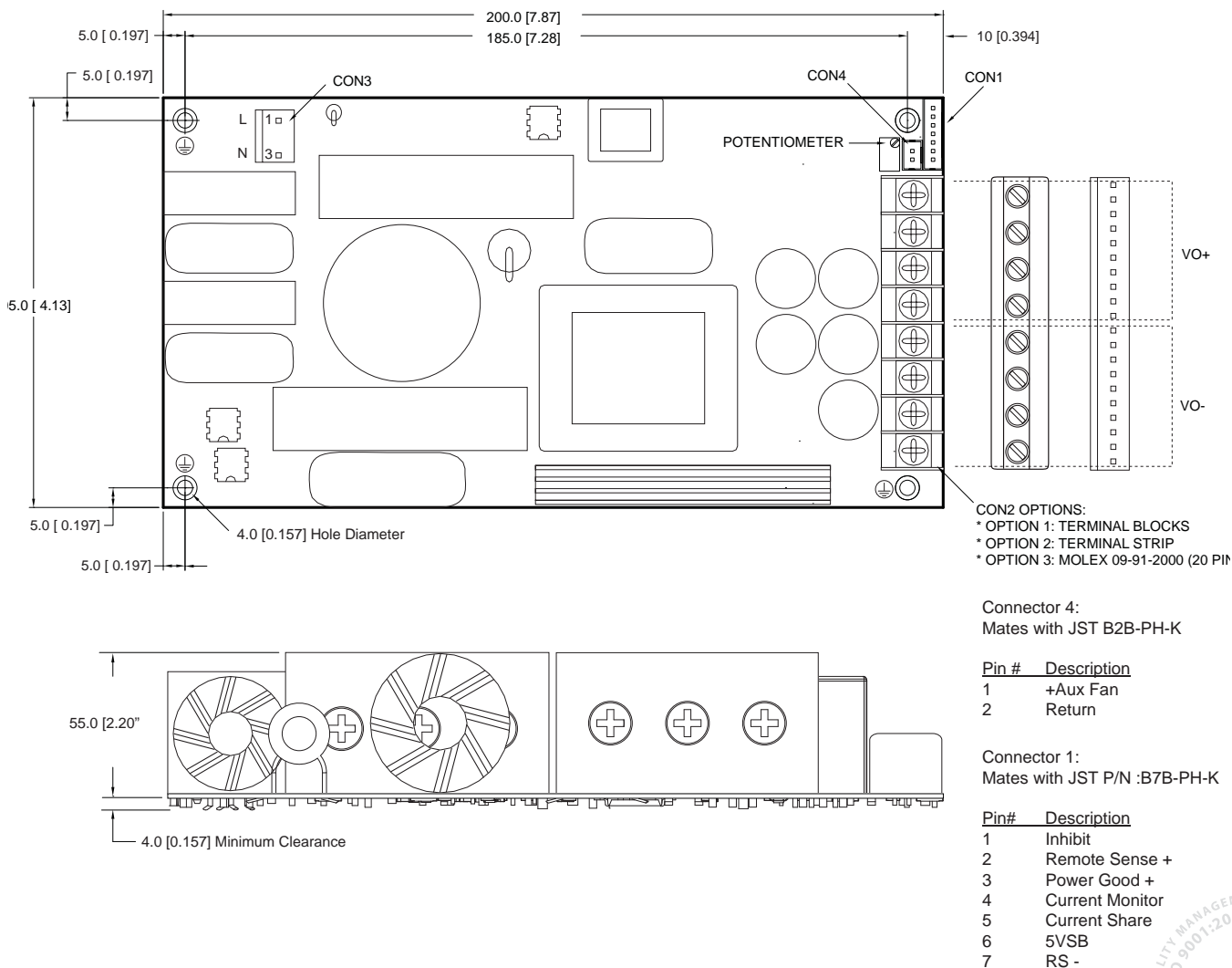
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PART #	INPUT	OUTPUTS				NOTE
		V1 / A1	V2 / A2	V3 / A3	V4 / A4	
HTK600-3.300z	86~264	3.3 100				130A peak (3ms)
HTK600-0500z	86~264	5 100				130A peak (3ms)
HTK600-1200z	86~264	12 50				58A peak (3ms)
HTK600-1500z	86~264	15 40				46A peak (3ms)
HTK600-1800z	86~264	18 33				38A peak (3ms)
HTK600-2400z	86~264	24 25				28A peak (3ms)
HTK600-2800z	86~264	28 21				24A peak (3ms)
HTK600-3000z	86~264	30 20				23A peak (3ms)
HTK600-3600z	86~264	36 16				18A peak (3ms)
HTK600-4800z	86~264	48 12				14A peak (3ms)
HTK600-5400z	86~264	54 11				12A peak (3ms)

\* Define Output Connector by replacing "z" with: 1 = barrier terminal block / 2 = euro type terminal block / 3 = Molex type connector



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