



REV: 08052011

ITE / EMBEDDED POWER SUPPLY

## PRODUCT FEATURES:

- **Universal AC Input**
- **Industry Standard Footprint**
- **Rugged U-Channel Construction**
- **Active PFC for EN61000-3-2 Class D Compliance**
- **High Efficiency Operation**
- **Short Circuit, Overcurrent, Overvoltage and Over-Temperature Protections**
- **Meets Conducted EMI Class B**



## INPUT SPECIFICATIONS:

VOLTAGE	Universal AC Input (90 ~ 264 VAC)
FREQUENCY	47 ~ 63 Hz
INRUSH	15A @ 115V / 30A @ 230VAC (Max Cold Start)
CURRENT	2.44A @ 115V / 1.22A @ 230V (Max. Continuous)
PROTECTION	Single 6.3A Fuse / 250 VAC Rated
LEAKAGE	< 5mA Max @ 240 VAC
HOLD-UP	≥ 22ms (230 VAC & Full Load)
EFFICIENCY	86% typical @ 230 VAC (12Vout)
HARMONICS	EN61000-3-2 Class D Compliant (>98PF)

## OUTPUT SPECIFICATIONS:

ADJUSTMENT RANGE	Set at Factory
MINIMUM LOAD	None
LINE REGULATION	±.5% max, across full input range
LOAD REGULATION	±.5% max, across full load range
RIPPLE	1% p-p, max (20MHz BW)
SETPOINT ACCURACY	±.5%
OVER VOLTAGE PROTECTION	110-115% (Recycle input to reset)
OVER-CURRENT	105-135% (Auto-Recovery)
SHORT CIRCUIT	(Auto-Recovery)

## GENERAL SPECIFICATIONS:

OPERATING TEMPERATURE	-20°C ~ +65°C (Derate 2.5% per °C above 50°C)
STORAGE TEMPERATURE	-20°C ~ +85°C
HUMIDITY	5% ~ 95% RH (non-condensing)
COOLING	18 CFM Forced Air
VIBRATION	10-500Hz, 2G, 10Min Period, / 60 min each (3 axes)
SHOCK	20G Peak Acceleration
RELIABILITY	> 500K Hours (Per Mil STD 217F)
SIZE (INCHES)	7.95" x 3.99" x 1.49"

## EMISSIONS:

EMISSIONS	EN55022 Level B (Conducted)
ELECTROSTATIC DISCHARGE	EN61000-4-2, 4KV Contact/ 8KV Air
RADIATED SUSCEPTIBILITY	EN61000-4-3, 26MHz-1000MHz, 10V/M, 80%AM
EFT / BURSTS	EN61000-4-4, 2KV
SURGES	EN61000-4-5, 2KV Earth, 1KV Line-Line
CONDUCTED IMMUNITY	EN61000-4-6, 0.15KHz-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	60950-1
CE MARK	Low Voltage Directive

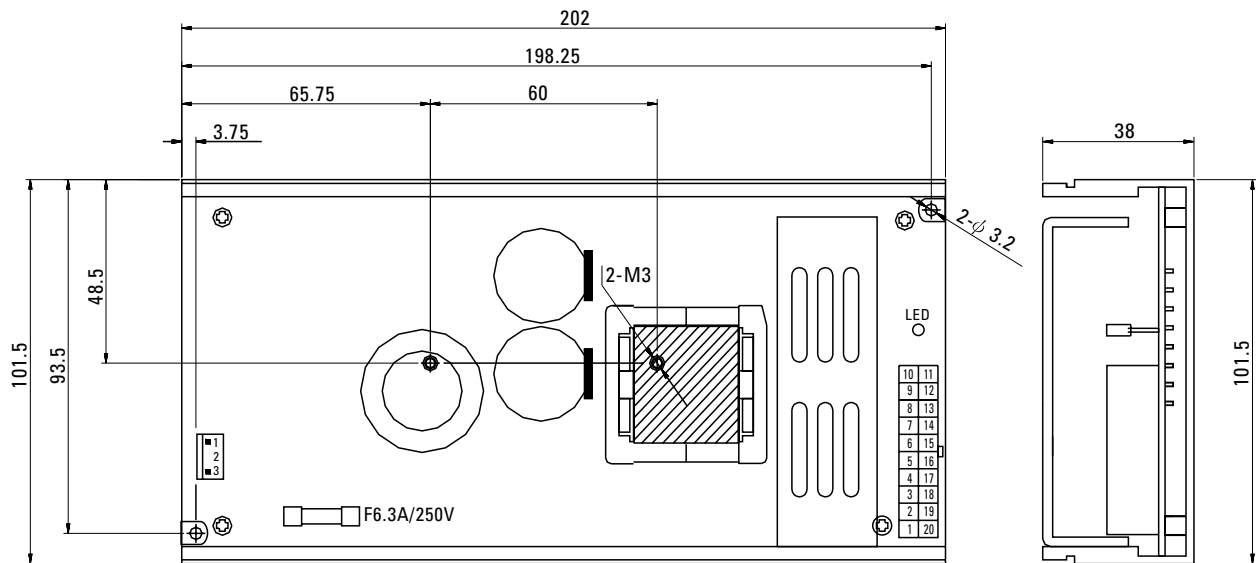


## OUTPUT MODELS:

Output Models:	Output #1		
	VDC	A (Min)	A (Max)
SOPS-3.3	3.3V	0A	40A
SOPS-5	5.0V	0A	40A
SOPS-12	12V	0A	18.7A
SOPS-15	15V	0A	15A

Note: All models require 18 CFM Forced Air Cooling for full load operation

## OUTLINE DRAWING:



AC INPUT CONNECTOR:  
JST B3P-VH (or equivalent)

MATES WITH:  
HOUSING = JST VHR  
TERMINAL = SVH-21T-P1.1

PIN	ASSIGNMENT
1	AC NEUTRAL
2	NO PIN
3	AC LINE

DC OUTPUT CONNECTOR  
MOLEX 39-29-9206

MATES WITH:  
HOUSEING = MLEX 5557  
TERMINAL = MOLEX 5556

PIN	ASSIGNMENT
1~5	+V OUTPUT
6~15	-V OUTPUT
16~20	+V OUTPUT

