DWHB150 SERIES

150 Watts Half Brick Type
8:1 Input Voltage Range
Isolated DC - DC Converters

FEATURES

- Fully Protected (OTP/OCP/OVP/UVLO)
- 1500Vdc I/O Isolation
- Fixed 200KHz Switching Frequency
- Regulated Outputs
- Remote On/Off
- Half Brick Size Meet Industrial Standard

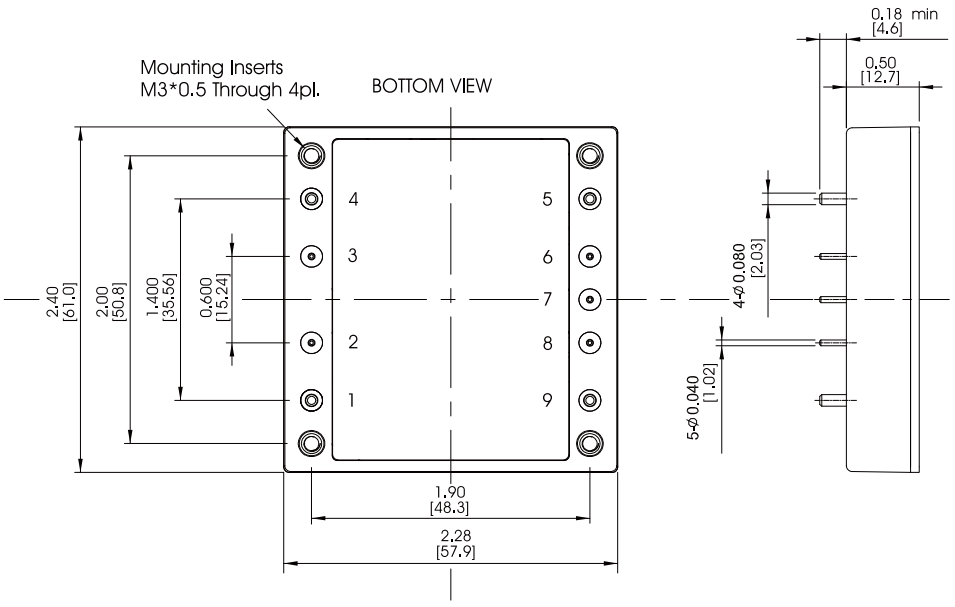
SPECIFICATIONS

Input Voltage Range ..... 36V(Range 9-75V)
Undervoltage lockout ..... Turn-on: 8.5~9.5VDC
Turn-off: 7.5~8.5VDC
Lockout Hysteresis: 1.0VDC
Remote On/Off Logic ..... See note
Input Filter.....LC Type
Voltage Accuracy.....±1% max
External Load Capacitance .....See Model Number Table
Output Voltage Trim Range ..... ±10%(-10% @Vi9-13V, 28Vo,Io max rated load)
Output Voltage Remote Sense Range .....+10% Max
R & N(5~20MHz BW) ..... 12,15V .... 120mVpK-pK max, 60mV/RMS
24,28V .... 280mVpK-pK max, 100mV/RMS
48V .... 480mVpK-pK max, 200mV/RMS
Temperature Coefficient ..... ± 0.03%/°C max
Short Circuit Protection ..... Continuous, Auto Recovery
Line Regulation (High line to Low line).....± 0.2% max
Load Regulation (Full load to No Load).....± 0.2% max
Over Voltage Protection ..... 115~140%
Over Current Protection ..... 105%~200%
Isolation Voltage 3000Vdc
Isolation Resistance.....10M Ω min
Operating Case Temperature.....-40℃ To+100℃
Storage Temperature Range.....-55℃ To +125℃
Over Temperature Shutdown, Recovery .....105℃ , 95℃
Case Material.....Aluminum Baseplate w/plastic Case

Model Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (A)	No Load Input Current	EFF. Typ. %	Capacitor Load Max.
DWHB150-X2	9-75	12	12.5	60mA	89.5	5000μF
DWHB150-X3	9-75	15	10.0	60mA	90	5000μF
DWHB150-X9	9-75	24	6.25	60mA	89.5	2000μF[2]
DWHB150-X9C	9-75	28	5.35	60mA	90	1500μF[2]
DWHB150-X9B	9-75	48	3.13	60mA	90	1000μF[2]
DWHB150-X2N	9-75	12	12.5	60mA	89.5	5000μF
DWHB150-X3N	9-75	15	10.0	60mA	90	5000μF
DWHB150-X9N	9-75	24	6.25	60mA	89.5	2000μF[2]
DWHB150-X9CN	9-75	28	5.35	60mA	90	1500μF[2]
DWHB150-X9BN	9-75	48	3.13	60mA	90	1000μF[2]

Note
1. Nominal Input Voltage 36 VDC
2. The Output Terminal of 24, 28, 48Vout Models Required a Minimum Capacitor 100uF to Maintain Specified Regulation
3. The Input External Capacitor Recommend to Parallel With 330uF ESR<0.7Ω to Reduce Input Ripple Voltage
4. All Specifications are Typical at Nominal Input, Full Load at 25℃ Unless Otherwise Noted.
5. Ripple and Noise measure at Full Load, 10uF Tantalum and 10uF Ceramic Capacitors (For 48V Full Load, 10uF Aluminum Solid Capacitor and 1uF Ceramic Capacitors.)
6. Remote ON/OFF Logic Compatibility.....Open collector Refer To -V Pin
   Suffix = Blank, Positive Remote Logic.
   Logic Low (Module OFF)..... 0 to < 1.2V
   Logic High (Module ON)..... 3.5 to <75V
   Suffix = N, Negative Remote Logic.
   Logic High (Module OFF)..... 3.5 to <75V
   Logic Low (Module ON)..... 0 to < 1.2V

MECHANICAL DRAWING (Unit: inch(mm))



Pin	Function
1	+V Input
2	On/Off
3	CASE
4	-V Input
5	-V Output
6	-Sense
7	Trim
8	+Sense
9	+V Output

Note : All Dimensions in Inches [mm]
Tolerance :
Inches: x.xx = 0.02 , x.xxx = 0.010
Minimeters: x.x = 0.5 , x.xx = 0.25