

eDUHB150

S E R I E S



150 Watts Half Brick Type 12:1 High Input Voltage Isolated DC - DC Converters

FEATURES

- ◆ Fully Protected (OTP/OCP/OVP/UVLO) / 5000m Operating Altitude
- ◆ 3000Vac I/O Isolation/ Regulated Outputs/Low No Load Consumption
- ◆ Fixed 480KHz Switching Frequency
- ◆ Shock & Vibration EN50155 (EN61373) Compliant
- ◆ Fire & Smoke EN45545-2 Compliant
- ◆ EN50155 Compliant With External Circuit

SPECIFICATIONS

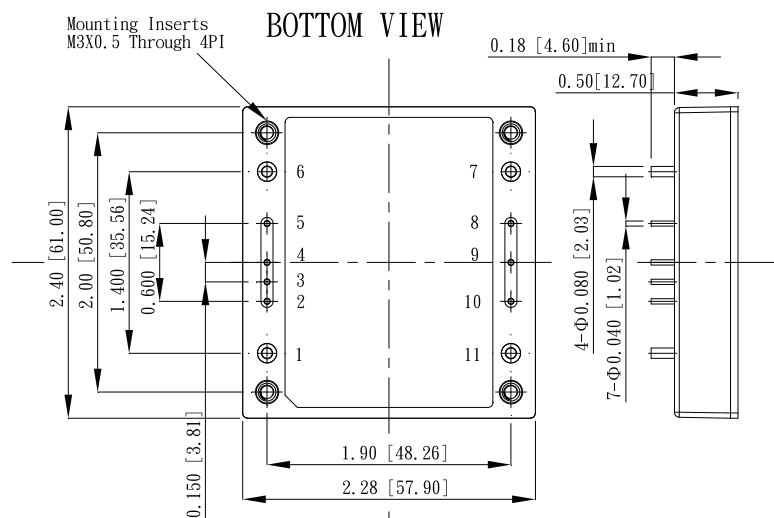
Input Voltage Range.....72V(Range 14-160V)
 Undervoltage Lockout.....Turn-on: 12.5~13.5VDC
 Turn-off: 10.5~11.5VDC
 Lockout Hysteresis: 2VDC
 Remote On/Off Logic.....See note
 Input Filter.....Pi Type
 Voltage Accuracy.....±1% max.
 External Load Capacitance.....See Model Number Table
 Output Voltage Trim Range.....-20~+15%
 R & N(5~20MHz BW).....5V.....100mVpK-pK max, 40mV/RMS
 12/15V.....200mVpK-pK max, 80/60mV/RMS
 24/48V.....240mVpK-pK max, 100mV/RMS
 Temperature Coefficient.....±0.02%/°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.....117~140%
 Over Current Protection.....110~140%
 Isolation Voltage.....Input to Output.....3000Vac
 Input to Case(Base Plate).....3000Vac
 Output to Case(Base Plate).....500Vac
 Isolation Resistance.....100M Ω min.
 Operating Case Temperature.....-40°C To +100°C
 Storage Temperature Range.....-55°C To +125°C
 Over Temperature Shutdown, Recovery.....105°C , 95°C
 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.
eDUHB150-91	14-160	5	25.0	50mA	90	25000µF
eDUHB150-92	14-160	12	12.5	50mA	91	16700µF
eDUHB150-93	14-160	15	10.0	50mA	90	10000µF
eDUHB150-99	14-160	24	6.25	50mA	89	6250µF
eDUHB150-99B	14-160	48	3.2	50mA	90	1500µF
eDUHB150-91N	14-160	5	25.0	50mA	90	25000µF
eDUHB150-92N	14-160	12	12.5	50mA	91	16700µF
eDUHB150-93N	14-160	15	10.0	50mA	90	10000µF
eDUHB150-99N	14-160	24	6.25	50mA	89	6250µF
eDUHB150-99BN	14-160	48	3.2	50mA	90	1500µF

- Note
1. Nominal Input Voltage 72 VDC
 2. An External Input Capacitor 100uF for All Models are Recommended to Reduce Input Ripple Voltage
 3. An External Electrolytic Capacitor at Least 240uF connect Between BUS and -Vin is Necessary
 4. All Specifications are Typical at Nominal Input, Full Load at 25°C. Unless Otherwise Noted.
 5. Ripple & Noise Measured at Full load, 10uF tantalum and 1uF ceramic capacitors (for Vo=48V: Full Load 10uF aluminum 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 < 160V
 Suffix = N, Negative Remote Logic.
 Logic High (Module OFF)..... 3.5 to < 160V
 Logic Low (Module ON)..... 0 to < 1.2V

MECHANICAL DRAWING (Unit: inch(mm))



PIN	Function
1	+V Input
2	UVLO
3	Sync
4	On/Off
5	BUS
6	-V Input
7	-V Output
8	-Sense
9	Trim
10	+Sense
11	+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