eDUHB200 SERIES

EURASIA POWER

200 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
- Fixed 480KHz Switching Frequency
- Shock & Vibration EN50155 (EN61373) Compliant
- Fire & Smoke EN45545-2 Compliant
- EN50155 Compliant With External Circuit

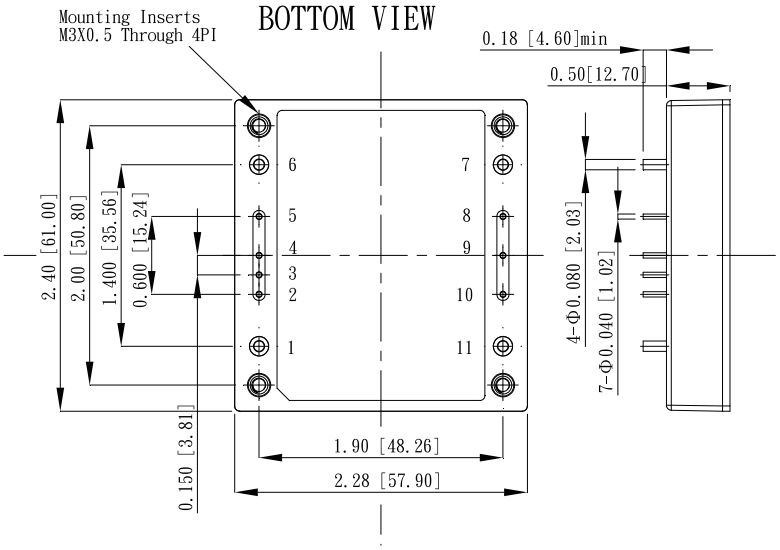
SPECIFICATIONS

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) ..... 12V .... 200mVpK-pK max, 80mV/RMS
15V ..... 200mVpK-pK max, 60mV/RMS
24/48V .... 240mVpK-pK max, 100mV/RMS
Temperature Coefficient.....± 0.02%/°C max.
Short Circuit Protection (Hiccup Mode) ..... 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℃ 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.
eDUHB200-92	14-160	12	16.7	50mA	90	16700μF
eDUHB200-93	14-160	15	13.5	50mA	90	13500μF
eDUHB200-99	14-160	24	8.4	50mA	88	8000μF
eDUHB200-99B	14-160	48	4.2	50mA	89	2200μF
eDUHB200-92N	14-160	12	16.7	50mA	90	16700μF
eDUHB200-93N	14-160	15	13.5	50mA	90	13500μF
eDUHB200-99N	14-160	24	8.4	50mA	88	8000μF
eDUHB200-99BN	14-160	48	4.2	50mA	89	2200μF

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