

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..... $\pm 1\%$ max
 External Load CapacitanceSee 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 $\pm 0.02\%/^{\circ}\text{C}$ max
 Short Circuit Protection (Hiccup Mode) Continuous, Auto Recovery
 Line Regulation (High line to Low line)..... $\pm 0.2\%$ max
 Load Regulation (Full load to No Load)..... $\pm 0.2\%$ 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, Recovery105°C , 95°C
 Case Material.....Aluminum Baseplate w/plastic Case

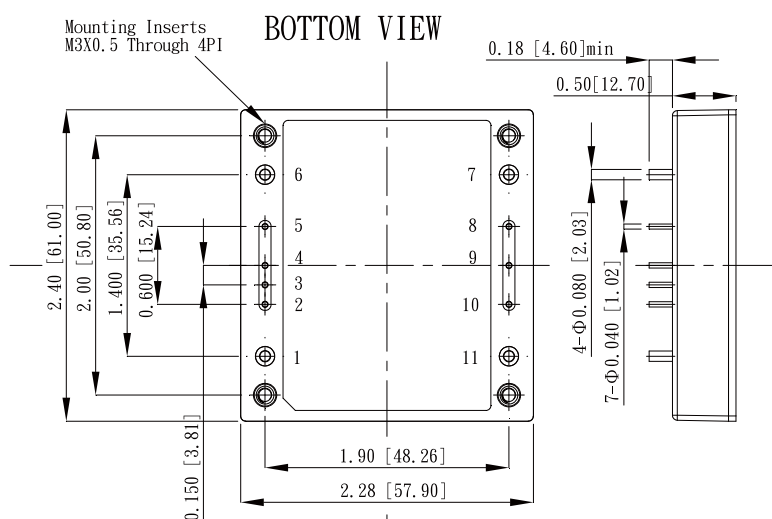


Model Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (A)	No Load Input Current	EFF. Typ. %	Capacitor Load Max.
DUHB200-92	14-160	12	16.7	50mA	90	16700 μF
DUHB200-93	14-160	15	13.5	50mA	90	13500 μF
DUHB200-99	14-160	24	8.4	50mA	88	8000 μF
DUHB200-99B	14-160	48	4.2	50mA	89	2200 μF
DUHB200-92N	14-160	12	16.7	50mA	90	16700 μF
DUHB200-93N	14-160	15	13.5	50mA	90	13500 μF
DUHB200-99N	14-160	24	8.4	50mA	88	8000 μF
DUHB200-99BN	14-160	48	4.2	50mA	89	2200 μF

Note

1. Nominal Input Voltage 72 VDC
2. An External Input Capacitor 100 μF for All Models are Recommended to Reduce Input Ripple Voltage
3. An External Electrolytic Capacitor at Least 240 μF 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, 10 μF tantalum and 1 μF ceramic capacitors (for Vo=48V: Full Load 10 μF aluminum and 1 μF 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