

- ◆ 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

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	$\pm 0.02\%/^{\circ}\text{C}$ max
Short Circuit Protection	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, 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.
DUHB150-91	14-160	5	25.0	50mA	90	25000µF
DUHB150-92	14-160	12	12.5	50mA	91	16700µF
DUHB150-93	14-160	15	10.0	50mA	90	10000µF
DUHB150-99	14-160	24	6.25	50mA	89	6250µF
DUHB150-99B	14-160	48	3.2	50mA	90	1500µF
DUHB150-91N	14-160	5	25.0	50mA	90	25000µF
DUHB150-92N	14-160	12	12.5	50mA	91	16700µF
DUHB150-93N	14-160	15	10.0	50mA	90	10000µF
DUHB150-99N	14-160	24	6.25	50mA	89	6250µF
DUHB150-99BN	14-160	48	3.2	50mA	90	1500µF

Note

- 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

Mounting Inserts
M3X0.5 Through 4PI

BOTTOM VIEW

Dimensions (mm) [Imperial (mm)]:

- Overall width: 2.40 [61.00]
- Overall height: 2.00 [50.80]
- Distance from top edge to first row of inserts: 1.400 [35.56]
- Distance between rows of inserts: 0.600 [15.24]
- Distance from bottom edge to last row of inserts: 0.150 [3.81]
- Distance between columns of inserts: 1.90 [48.26]
- Distance from left edge to first column of inserts: 0.18 [4.60] min
- Distance from right edge to last column of inserts: 0.50 [12.70]
- Distance from center to first column of inserts: 4- Φ 0.080 [2.03]
- Distance from center to last column of inserts: 7- Φ 0.040 [1.02]

Insert locations are numbered 1 through 11.

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