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S E R I E S



300 Watts Half Brick Type 2:1 High Input Voltage Isolated DC - DC Converters

FEATURES

- ◆ Over Temperature Protection
- ◆ 3000Vac I/O Isolation / Regulated Outputs
- ◆ Fixed 300KHz Switching Frequency
- ◆ Over Voltage/Current Protection
- ◆ Input Under Voltage Protection
- ◆ Low No Load Power Consumption



SPECIFICATIONS

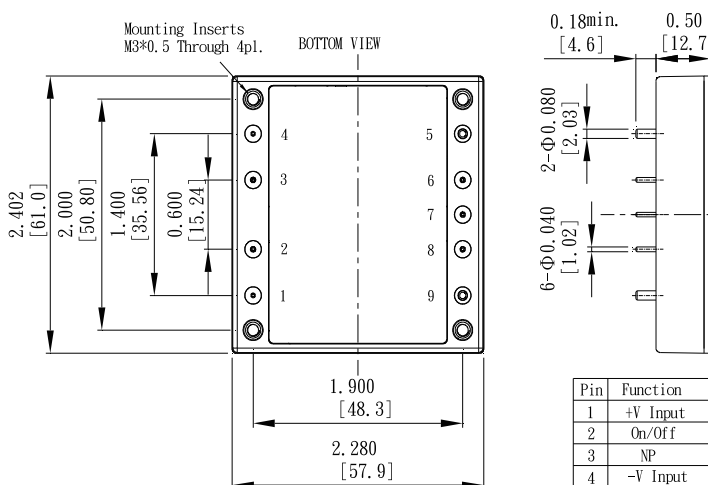
Input Voltage Range.....300V(Range 180-425V)
 Undervoltage lockout ... power up: 170VDC / power down: 160VDC
 Positive Logic Remote On/Off Logic.....See note
 Input Filter.....Pi Type
 Voltage Accuracy.....±1% max.
 External Load Capacitance.....See Model Number Table
 External Trim Adj. Range.....+10%, -20%
 R & N (20MHz BW).....5V: 60mV RMS, 120mVpK-pK max.
 12V: 60mV RMS, 150mVpK-pK max.
 24V: 120mV RMS, 240mVpK-pK max.
 28V: 150mV RMS, 280mVpK-pK max.
 48V: 200mV RMS, 480mVpK-pK max.
 Temperature Coefficient.....± 0.02%/°C max.
 Short Circuit Protection.....Continuous
 Line Regulation (High Line + Low Line).....± 0.2% max.
 Load Regulation (Full Load to Zero Load).....± 0.2% max.
 OVP Trip Range, % Vo Nom.....115~140%
 Current Limit.....105%~140% Nominal Output
 Isolation Voltage.....Input to Output.....3000Vac
 Input to Case(Base Plate).....2500Vac
 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 +105°C
 Thermal Shutdown case Temperature.....105°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.
eDHHB300-C1	180-425	5	60.0	10mA	89.0	10000µF
eDHHB300-C2	180-425	12	25.0	10mA	88.0	10000µF
eDHHB300-C9	180-425	24	12.5	10mA	90.0	6000µF
eDHHB300-C9C	180-425	28	10.7	10mA	90.0	6000µF
eDHHB300-C9B	180-425	48	6.25	10mA	90.0	3000µF
eDHHB300-C1N	180-425	5	60.0	10mA	89.0	10000µF
eDHHB300-C2N	180-425	12	25.0	10mA	88.0	10000µF
eDHHB300-C9N	180-425	24	12.5	10mA	90.0	6000µF
eDHHB300-C9CN	180-425	28	10.7	10mA	90.0	6000µF
eDHHB300-C9BN	180-425	48	6.25	10mA	90.0	3000µF

Note:

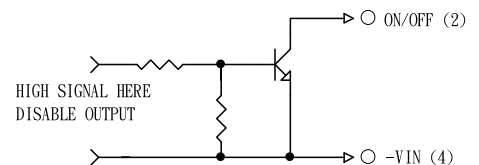
- 1: All Specifications Typical at Nominal Line, Full Load, and 25°C Unless Otherwise Noted.
2. Measured at Nominal Input Voltage 300 VDC.
3. An External Input Capacitor 150uF for All Models are Recommended to Reduce Input Ripple Voltage.
4. Output Ripple & Noise Measured with 10µF Tantalum & 1µF Ceramic Capacitor Across Output(5V: 47µF Polymer Tantalum & 1µF Ceramic Capacitor Across Output ; 10µF Aluminum & 1µF Ceramic Capacitor Across Output ; 10µF & 1µF Ceramic Capacitor Across Output)
5. Remote ON/OFF Logic Compatibility.....Open collector Ref. To -V Pin
 Suffix = Blank, Positive Remote Logic.
 Module ON..... >3.5V to 75V or Open Circuit
 Module OFF..... 0V to < 1.2V
 Suffix = N, Negative Remote Logic.
 Module ON..... 0V to < 1.2V
 Module OFF..... >3.5V~75V or Open Circuit

MECHANICAL DRAWING (Unit: inch(mm))



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

Remote On/Off Control



External Output Trim

