

600-700 Watts Full Brick Type 2:1 Isolated DC-DC Converters

FEATURES

Input Under-Voltage Protection
Fully Protected (OTP/OCF/OVP/Short circuit)
1500VDC I/O Isolation
Fixed Switching Frequency
Remote On/Off
Full-Brick Size meet Industry Standard

SPECIFICATIONS

Input Voltage Range.....24V(Range 18-36V) ; 48V(Range 36-75V)
Undervoltage lockout ... 24Vin power up: 17V / power down: 16VDC
48Vin power up: 35V / power down: 33VDC
Input Over Vol., Protection.....24Vin turn off ... 40V, turn on ... 38V
48Vin turn off ... 80V, turn on ... 77V
Input Filter.....Pi Type
Voltage Accuracy..... $\pm 1.0\%$ max.
External Trim Adj. Range.....60-110%
R & N (20MHz BW).....12V: 60mV RMS, 120mVpK-pK max.
24 & 28V: 100mV RMS, 240/280mVpK-pK max.
32V: 120mV RMS, 320mVpK-pK max.
48V: 200mV RMS, 480mVpK-pK max.
Temperature Coefficient..... $\pm 0.03\%/^{\circ}\text{C}$ max.
Short Circuit Protection.....Continuous
Line Regulation (High Line $\uparrow$ Low Line)..... $\pm 0.2\%$ max.
Load Regulation (Full Load to Zero Load)..... $\pm 0.5\%$ max.
OVP Trip Range, % Vo Nom.....115~140%
Current Limit.....110%~150% Nominal Output
Isolation Vol.....I/P to O/P, I/P to case, O/P to case...1500Vdc min.
Isolation Resistance.....10M ohm min.
Operating Case Temperature.....-40 $^{\circ}\text{C}$ To +100 $^{\circ}\text{C}$
Storage Temperature Range.....-55 $^{\circ}\text{C}$ To +105 $^{\circ}\text{C}$
Thermal Shutdown case Temperature.....110 $^{\circ}\text{C}$
Case Material.....Aluminum Baseplate w/plastic Case
Weight.....220g



Model Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (A)	No Load Input Current	EFF. Typ. %	Capacitor Load Max.
DFB600-22x	18-36	12	50.0	150mA	88.0	10000 μF
DFB600-29x	18-36	24	25.0	150mA	89.0	5000 μF
DFB600-29Cx	18-36	28	21.5	150mA	90.0	5000 μF
DFB600-29Dx	18-36	32	19.0	150mA	91.0	70000 μF
DFB600-29Bx	18-36	48	12.5	200mA	91.0	5000 μF
DFB600-32x	36-75	12	50.0	90mA	90.0	10000 μF
DFB600-39x	36-75	24	25.0	100mA	92.0	5000 μF
DFB600-39Cx	36-75	28	25.0	105mA	91.0	5000 μF
DFB600-39Dx	36-75	32	19.0	90mA	92.0	5000 μF
DFB600-39Bx	36-75	48	12.5	130mA	92.0	5000 μF

Note:

1. Efficiency Measure at Nominal Input Voltage.
2. The output terminal of All Models Required a minimum capacitor 470uF to maintain specified regulation.
3. Remote ON/OFF Logic Compatibility.....Open collector Ref. To -V Pin
Suffix x = blank stands for Negative Logic.
Suffix x = P, Positive Logic.

MECHANICAL DRAWING (Unit: inch(mm))

