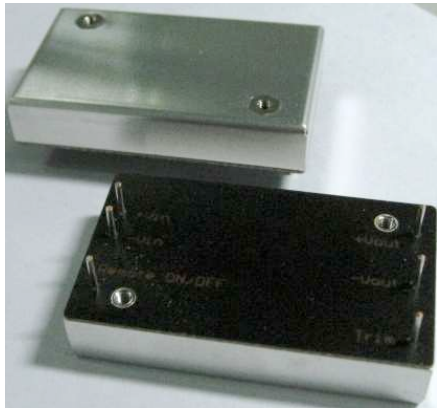


ECLB40W Series



Features:

- 40W isolated output
- Efficiency to 91%
- 2.05" x 1.2 x 0.4" six sided shield metal case
- 4:1 input range
- Regulated outputs
- Fixed switching frequency
- Input under voltage protection
- Over current protection
- Remote ON/OFF
- Continuous short circuit protection
- No tantalum capacitor inside
- CE mark meets 2004/108/EC
- Safety meets UL60950-1, EN60950-1 and IEC60950-1

ECLB40W Specifications

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		%EFF.		CAPACITIVE LOAD MAX.
			MN.	MAX.	NO LOAD	FULL LOAD	(3)	(2)	
ECLB40w-24S33	9-36VDC	3.3VDC	0mA	10000mA	8mA	1528mA	88.5	90	10000uF
ECLB40w-24S05	9-36VDC	5VDC	0mA	8000mA	8mA	1842mA	89.5	90.5	8000uF
ECLB40w-24S12	9-36VDC	12VDC	0mA	3333mA	10mA	1832mA	90.5	91	3300uF
ECLB40w-24S15	9-36VDC	15VDC	0mA	2666mA	10mA	1842mA	90.5	90.5	2700uF
ECLB40w-24D12	9-36VDC	±12VDC	0mA	±1667mA	10mA	1873mA	89.5	89	1650uF
ECLB40w-24D15	9-36VDC	±15VDC	0mA	±1333mA	10mA	1862mA	90	89.5	1350uF
ECLB40w-48S33	18-75VDC	3.3VDC	0mA	10000mA	6mA	764mA	89	90	10000uF
ECLB40w-48S05	18-75VDC	5VDC	0mA	8000mA	6mA	921mA	90	90.5	8000uF
ECLB40w-48S12	18-75VDC	12VDC	0mA	3333mA	8mA	921mA	91.5	90.5	3300uF
ECLB40w-48S15	18-75VDC	15VDC	0mA	2666mA	8mA	921mA	91	90.5	2700uF
ECLB40w-48D12	18-75VDC	±12VDC	0mA	±1667mA	8mA	932mA	90	89.5	1650uF
ECLB40w-48D15	18-75VDC	±15VDC	0mA	±1333mA	8mA	926mA	90.5	90	1350uF

Note: 1. Nominal input voltage 24 or 48 VDC
 2. Measured at the nominal input voltage
 3. Measured at 12VDC for 24Vin, 24VDC for 48Vin

SPECIFICATIONS

INPUT SPECIFICATIONS:

Input Voltage Range	24VDC	9 – 36VDC
	48VDC	18 – 75VDC
Input Surge Voltage (100ms max.)	24VDC	50VDC max.
	48VDC	100VDC max.
Under Voltage Lockout	24Vin Power Up	8.5VDC typ.
	24Vin Power Down	8.0VDC typ.
	48Vin Power Up	17VDC typ.
	48Vin Power Down	16VDC typ.
Input Filter	PI Type	
Remote on/off Control (Note3)		

OUTPUT SPECIFICATIONS:

Voltage Accuracy	±1.5% max.
Voltage Balance (Dual)	±1% max.
Transient Response: 75% ~ 100% Step Load Change	
Error Band	±5% Vout nominal, Recovery Time < 250us
Ripple & Noise, 20MHz BW (Measured with 1uF MLCC)	
Vo=3.3 & 5V	100mV p-p max.
Vo=12V & 15V & ±12V & ±15V	150mV p-p max.
Temperature Coefficient	±0.02%/□ max.
Line Regulation (Note1)	Single/Dual ±0.2% max.
Load Regulation (Note2)	Single/Dual ±0.5% max.
Cross Regulation (Dual Output) Load Cross Variation 10%/100%	±5% max.
Over Voltage Protection	Zener or TVS Clamp
Current Limit	110% - 160% Nominal Output
Output Short Circuit Protection	Continuous (Hiccup Mode)
External Trim Adj. Range (Single Output Models Only)	±10%
Start Up Time	15ms typ.

All specifications typical at nominal line, full load and 25°C unless otherwise stated.

GENERAL SPECIFICATIONS:

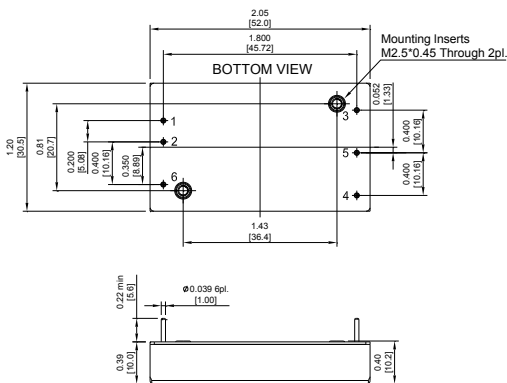
Efficiency	See Table
Isolation Voltage	Input/Output 1500VDC min.
	Input/Case 1000VDC min.
	Output/Case 1000VDC min.
Isolation Resistance	10 ⁹ Ohms min.
Isolation Capacitance	Input/Output 1500pF typ.
	Input/Case 1000pF typ.
	Output/Case 1000pF typ.
Switching Frequency	300KHz typ.
EMI/RFI	Six-Sided Continuous Shield
Operating Ambient Temperature Range	-40°C to +85°C
De-rating, Above 60	Linearly to Zero Power at +105°C
Case Temperature (Note4)	105°C max.
Cooling	Natural Convection
Storage Temperature Range	-55°C to +125°C
Thermal Shutdown, Case Temp.	110°C typ.
Humidity	95% RH max. Non-Condensing
MTBF ... MIL-STD-217F, GB, 25, Full Load ... Single	TBDhrs typ.
	Dual TBDhrs typ.
Dimensions	2.05 x 1.20 x 0.40 inches (52 x 30.5 x 10.2 mm)
Case Material	Aluminum with Non-Conductive Base
Weight	36g

NOTE :

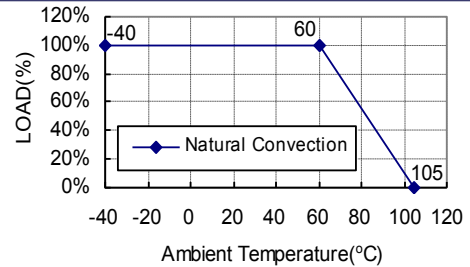
1. Measured from high line to low line.
2. Measured from full load to min. load.
3. Logic compatibility ... CMOS or open collector TTL, refer to -Vin.
 Module on >3.5Vdc to 75Vdc or open circuit
 Module off <1.2Vdc
4. Maximum case temperature under any operating condition should not exceed 105°C.

ECLB40W SERIES

CASE LB
 All Dimensions in Inches[mm]
 Tolerance Inches:x.xx=±0.02, x.xxx=±0.010
 Millimeters:x.x=±0.5, x.xx=±0.25



PIN CONNECTION		
PIN	Single Output	Dual Output
1	+V Input	+V Input
2	-V Input	-V Input
3	+V Output	+V Output
4	Trim	-V Output
5	-V Output	Common
6	Remote ON/OFF	



External Output Trimming

