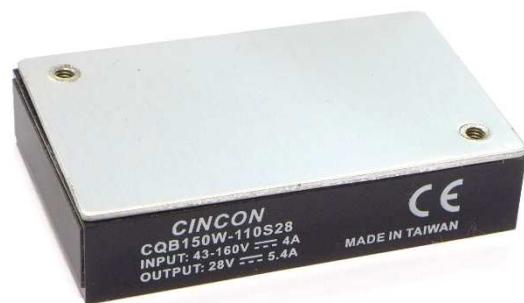




FEATURES

- * 150W Isolated Output
- * Efficiency to 92%
- * Fixed Switching Frequency
- * 4:1 Input Range
- * Regulated Outputs
- * Remote On/Off
- * Low No Load Power Consumption
- * Over Temperature Protection
- * Over Voltage/Current Protection
- * Continuous Short Circuit Protection
- * Quarter Brick Size Meet Industrial Standard
- * CE Mark Meets 2014/30/EU
- * UL60950-1 2nd (Basic Insulation) Approval
- * CB Test Certificate IEC60950-1
- * Meets EN50155 with External Circuits
- * Shock & Vibration Meets EN50155 (EN61373)
- * Fire & Smoke Meets EN45545-2
- * 3000m Operating Altitude



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		% EFF.	CAPACITIVE LOAD MAX.
			MIN.	MAX.	NO LOAD	FULL LOAD		
CQB150W-110S05	43-160 VDC	5.0 VDC	0 mA	30 A	10mA	1.50A	91	30000µF
CQB150W-110S12	43-160 VDC	12 VDC	0 mA	12.5 A	10mA	1.48A	92	12500µF
CQB150W-110S24	43-160 VDC	24 VDC	0 mA	6.3 A	10mA	1.54A	89	6300µF
CQB150W-110S28	43-160 VDC	28 VDC	0 mA	5.4 A	10mA	1.54A	89	5400µF
CQB150W-110S48	43-160 VDC	48 VDC	0 mA	3.2 A	10mA	1.54A	90.5	1000µF

NOTE: 1. Nominal Input Voltage 110VDC

SPECIFICATIONS

All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted

INPUT SPECIFICATIONS:

Input Voltage Range	110V	..... 43-160V
Input Surge Voltage (100ms max.)	110V	..... 200Vdc max.
Under voltage lockout	110Vin power up	..... 41.5V
	110Vin power down	..... 38V
Positive Logic Remote On/Off (see note 4 & 5)		
Input Filter		PI Type

OUTPUT SPECIFICATIONS:

Voltage Accuracy	..... ±1.0% max.
Transient Response: 25% Step Load Change	..... <250us
External Trim Adj. Range	..... ±10%
Ripple & Noise, 20MHz BW (note3)	
5V	..... 40mV RMS, 100mV pk-pk max.
12V	..... 60mV RMS, 150mV pk-pk max.
24V&28V	..... 100mV RMS, 280mV pk-pk max.
48V	..... 200mV RMS, 480mV pk-pk max.
Temperature Coefficient	..... ±0.02%/°C max.
Short Circuit Protection	..... Continuous
Line Regulation (note1)	..... ±0.2% max.
Load Regulation (note2)	..... ±0.2% max.
Over Voltage Protection trip Range, % Vo nom.	..... 115-140%
Current Limit	..... 110%-160% Nominal Output
Start up Time	..... 60ms typ.

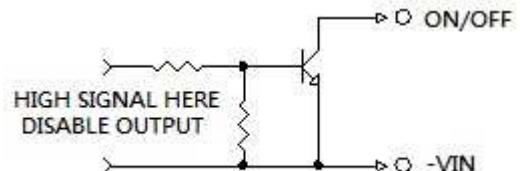
GENERAL SPECIFICATIONS:

Efficiency	..... See Table
Isolation Voltage	
Input/Output	..... 3000VDC min.
Input/Case	..... 2250VDC min.
Output/Case	..... 500VAC min.
Isolation Resistance	..... 10 ⁸ ohm min.
Isolation Capacitance	..... 1500pF typ.
Switching Frequency	..... 300KHz typ.
Operating Case Temperature	..... -40°C to +105°C
Storage Temperature	..... -55°C to +125°C
Thermal Shutdown, Case Temperature	..... 110°C typ.
Humidity	..... 95% RH max. Non condensing
MTBF ... MIL-HDBK-217F, GB, 25°C, Full Load ... 5V/12V	..... 720Khrs typ.
Others	..... 840Khrs typ.
Dimensions	..... 2.28×1.45×0.50 inches (57.9×36.8×12.7 mm)
Safety	..... UL60950-1 2 nd (Basic Insulation)
EMC (note8)	..... EN50155(EN50121-3-2) with External Filter
Shock/Vibration	..... EN50155(EN61373)
Environmental	..... EN50155(EN60068-2-1)
Case Material	..... Aluminum Base Plate with Plastic Case
Weight	..... 68g

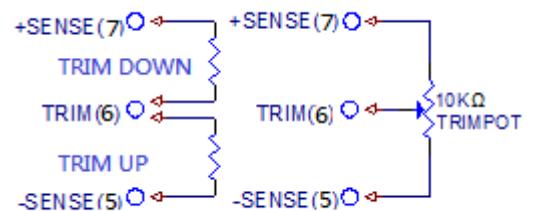
NOTE:

1. Measured from high line to low line.
2. Measured from full load to zero load.
3. Output ripple and noise measured with 10uF aluminum and 1uF ceramic capacitor across output for 48Vout and with 10uF tantalum and 1uF ceramic capacitor for others.
4. Logic compatibility open collector ref to -Input
Module on >3.5Vdc to 160Vdc or open circuit
Module off 0 to < 1.2Vdc
5. Suffix "N" to the model number with negative logic remote on/off
Module on 0 to < 1.2Vdc
Module off >3.5Vdc to 160Vdc or open circuit
6. Suffix "-C" to the model number with clear mounting insert (3.2mm DIA.).
7. An external input capacitor 220uF for all models are recommended to reduce input ripple voltage.
8. For information about EN50155 and RIA12, refer to application note.

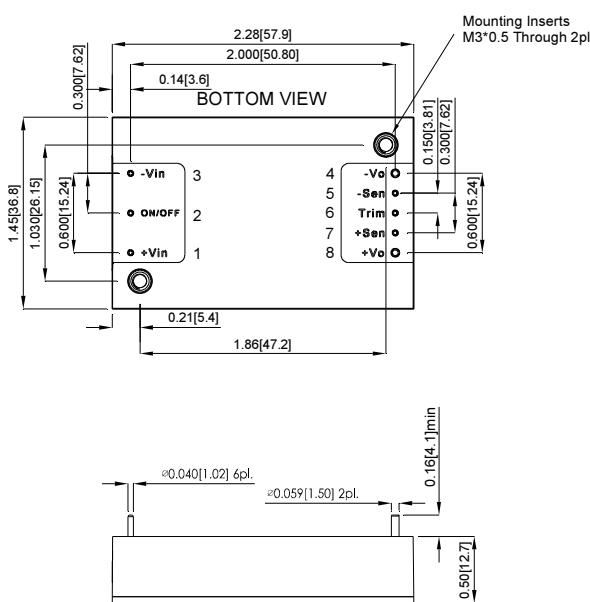
REMOTE ON/OFF CONTROL



EXTERNAL OUTPUT TRIM



All Dimensions In Inches(mm)
Tolerances Inches: X.XX= ±0.02 , X.XXX= ±0.010
 Millimeters: X.X= ±0.5 , X.XX=±0.25



PIN CONNECTION	
PIN	Function
1	+V Input
2	On/Off
3	-V Input
4	-V Output
5	-Sense
6	Trim
7	+Sense
8	+V Output