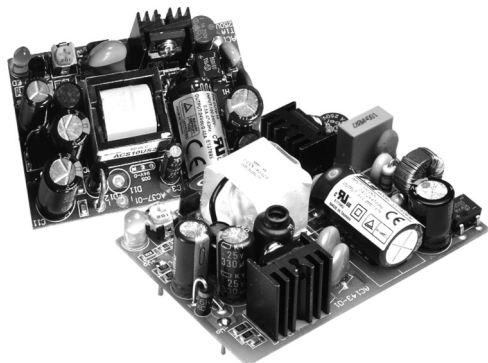


CU10-15 Series



- Low Cost
- Small Size
- PCB Mount
- 15 Watt Medical Version
- Single Output 3.3-24 V
- Peak Load Capability
- Non-standard Outputs Available

Specification

Input

Input Voltage	• 85-264 VAC (120-370 VDC)
Input Frequency	• 47-63 Hz
Input Current	• 0.13 A rms at 230 VAC (CU10) 0.20 A rms at 230 VAC (CU15)
Inrush Current	• 20 A at 115 VAC, 40 A at 230 VAC, cold start 25 ° C
Earth Leakage Current	• Class 2 (no earth)
Input Protection	• 1A fuse (CU10) 2A fuse (CU15, CU15-M)

Output

Output Voltage	• See table
Output Voltage Trim	• ±5%
Initial Set Accuracy	• ±1%
Minimum Load	• No minimum load required
Start Up Delay	• 1.5 s max
Start Up Rise Time	• 14 ms max
Hold Up Time	• 16 ms typical at full load and 115 VAC
Drift	• 0.6%
Line Regulation	• 0.5% max
Load Regulation	• 1.0% max 10% load to full load
Transient Response	• 4% max deviation, recovery to within 1% within 500 µs for 25% load change
Ripple & Noise	• 1% max pk-pk (see note 1)
Overvoltage Protection	• 130-150% of Vnom, recycle input to reset
Short Circuit Protection	• Trip and restart (Hiccup mode)
Temperature Coefficient	• 0.05%/° C

General

Efficiency	• See tables
Isolation	• 3000 VAC Input to Output (CU10/15) 4000 VAC Input to Output (CU15-M)
Switching Frequency	• 100 kHz typical for 10 W models 67 kHz typical for 15 W models
Power Density	• 2.43 W/in ³ (CU10); 3.17 W/in ³ (CU15)
MTBF	• >500 kHrs per MIL-HDBK-217F (15 & 24 V units >400 kHrs)

Environmental

Operating Temperature	• CU10/15: 0 ° C to +65 ° C, derate from full load at +45 ° C to no load at +65 ° C CU15-M: 0 ° C to +70 ° C, derate from full load at +50 ° C to 50% load at +70 ° C
Cooling	• Convection-cooled
Operating Humidity	• 95% RH, non-condensing
Storage Temperature	• -20 ° C to +85 ° C
Operating Altitude	• 3000 m
Vibration	• 10 Hz to 500 Hz, 2 g for 10 mins/cycle 60 min each cycle

EMC & Safety

Emissions	• CU15-M: EN55011 Level B conducted Others: FCC20780 Level B, EN55022 Class B conducted
ESD Immunity	• EN61000-4-2, level 3, Perf Criteria A
Radiated Immunity	• EN61000-4-3, level 3, Perf Criteria A
EFT/Burst	• EN61000-4-4, level 2, Perf Criteria A
Surge	• EN61000-4-5, level 3, Perf Criteria A
Conducted Immunity	• EN61000-4-6, 10 V, Perf Criteria A
Dips & interruptions	• EN61000-4-11, 30% 10 ms, 60% 1000 ms, 100% 5000 ms, Perf Criteria A, B, B
Safety Approvals	• CU15-M: EN60601, UL2601-1, CSA22.2 No. 601.1 per cUL Others: EN60950, UL1950, CSA22.2 No. 234 per cUL

Models and Ratings

Output Power	Output Voltage ⁽³⁾	Output Current		Efficiency (typical)	Model Number
		Nominal	Peak ⁽²⁾		
8.25 W	3.3 VDC	2.50 A	3.80 A	65%	CU10-00
10 W	5.0 VDC	2.00 A	2.80 A	70%	CU10-10
	9.0 VDC	1.12 A	1.50 A	72%	CU10-09
	12.0 VDC	0.84 A	1.20 A	75%	CU10-12
	15.0 VDC	0.67 A	1.00 A	75%	CU10-13
	24.0 VDC	0.42 A	0.65 A	78%	CU10-14

Output Power	Output Voltage ⁽³⁾	Output Current		Efficiency (typical)	Model Number ⁽⁴⁾
		Nominal	Peak ⁽²⁾		
10 W	3.3 VDC	3.00 A	4.50 A	70%	CU15-00
15 W	5.0 VDC	3.00 A	4.50 A	73%	CU15-10
	9.0 VDC	1.67 A	3.00 A	75%	CU15-09
	12.0 VDC	1.25 A	1.80 A	80%	CU15-12
	15.0 VDC	1.00 A	1.50 A	80%	CU15-13
	24.0 VDC	0.63 A	0.95 A	82%	CU15-14

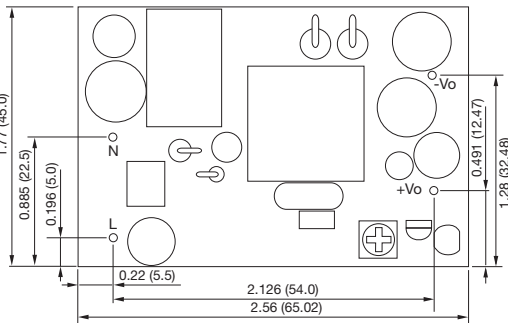
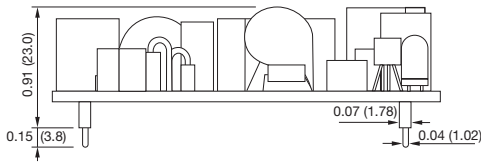
Notes

1. Measured at 20 MHz bandwidth. 3.3 V models are 50 mV maximum.
2. Peak load lasting <30 s with a maximum duty cycle of 10%.

3. Alternative output voltages available. Consult sales.
4. Medical approved 15 W version available. Add suffix ' -M' to part number.

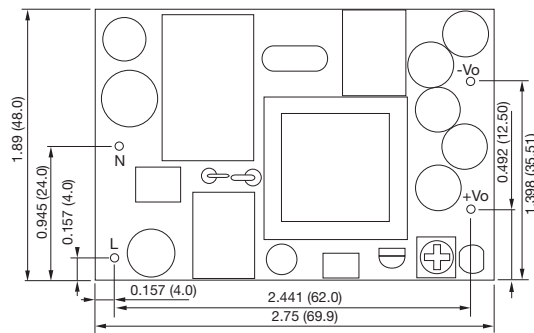
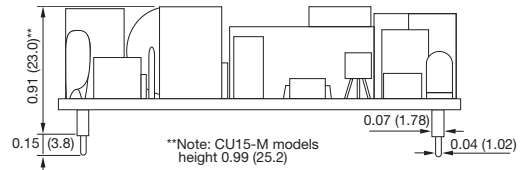
Mechanical Details

CU10 models



weight: 0.132 lb (60 g)

CU15/CU15-M models



weight: 0.176 lb (80 g)

Notes

1. All dimensions shown in inches (mm).
2. For mating connectors only, order part number CU20-60 CONKIT

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