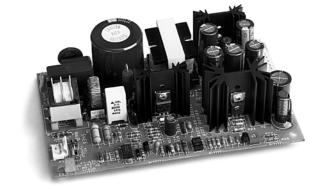
65W

OPEN-FRAME SWITCHING POWER SUPPLIES

- ✓ Dual and Triple Output Models
- ✓ Low-Profile and Standard Height Formats
- ✓ 65W Continuous Output Power—Convection Cooled
- ✓ 85-265 VAC Universal Input Models
- ✓ CE Mark: UL/CSA/EN60950 Approvals
- ✓ EN55022/FCC Class B Input Line Filter
- ✓ 0% Minimum Load Requirement—All Outputs
- ✓ Over-Current/Short-Circuit Protection

CHARACTERISTICS

- 2-Year Warranty
- ✓ Minimum 175,000-Hour MTBF



Input Voltage	Universal input voltage range, 85-
par ionago	265 VAC single phase or 100-370
	VDC.
	47-440 Hz (50/60 Hz, nominal).
Input Line Protection	MOV transient protected. Input line
	fuse on-board. Replace the input
	line fuse with the same type and rat-
	ing. Recommended: 2A/250V slow-
EMI Eiltor	blow fuseStandard. Performance surpasses
LIVII I III.EI	conducted EMI requirements of
	EN55022/FCC Class B by 10 dB, typ.
Continuous Output Power	
	Primary output adjustable ±5%.
3,	Auxiliary outputs fixed.
Efficiency	65%, minimum, 115 or 230 VAC
	input, full load conditions.
Hold-Up Time	16 ms (115 VAC input), 32 ms (230
	VAC input), minimum, at full load.
Overload Protection	
Short-Circuit Protection	
Over-Voltage Protection	Primary output only (120% of rated
O - ft Ot t	output voltage, typical).
Soft Start	Standard on all modelsFlyback converter with current-mode
Design Topology	control.
Frequency of Operation	
	5300 VDC, input-to-output for one
	minute. (See Note 1).
Noise, Ripple and Spike	1% peak-to-peak, maximum. (Note 4.)
Transient Response	4 ms recovery to within 1% of the
	regulation band with no more than
	5% deviation.
Temperature Range	20°C to +70°C.
Output Power De-Rating	De-rate output power and current
Tamana watuwa Ca afficiant	linearly 2%/°C from +50°C to +70°C. ±0.05%/°C over the entire operating
Temperature Coefficient	temperature range.
Relative Humidity	
Altitude	
	Convection cooling is adequate.
3	Moving air is recommended for oper-
	ation in a confined area.
Storage Temperature	
Storage Humidity	
Mean Time Between Failures.	>175,000 hours,calculated using the

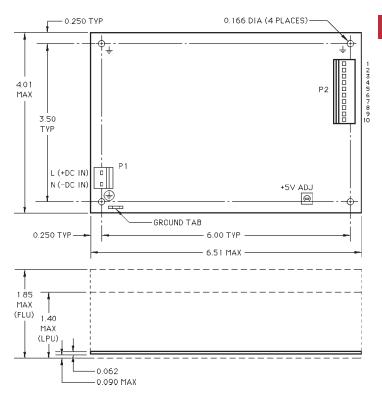
parts stress method in MIL-HDBK 217F (ground benign, $T_A = +25$ °C).

Model	Output Voltag		put Cu Nom. (A)		Output Voltage Tol.	Line Reg.	Load Reg.	Cross- Reg.
AC-DC Duals 85-265 VAC Input							nput	
FLU2-65-2AD	V1 +5 V2 +15	0.00	4.00 4.00	5.00 5.00	1.0% 5.0%	0.2% 0.5%	0.5% 5.0%	— 4.0%
FLU2-65-3AD	V1 +5 V2 +24	0.00	8.00 1.25	8.50 2.50	1.0% 5.0%	0.2% 0.5%	0.5% 5.0%	— 4.0%
AC-DC Triples 85-265 VAC Input								
LPU3-65-5AD	V1 +5 V2 +12 V3 -12	0.00 0.00 0.00	5.00 1.70 1.70	6.00 3.00 3.00	1.0% 5.0% 5.0%	0.2% 0.5% 0.5%	0.5% 3.0% 4.0%	 4.0% 4.0%
LPU3-65-6AD	V1 +5 V2 +15 V3 -15	0.00 0.00 0.00	5.00 1.30 1.30	6.00 2.00 2.00	1.0% 5.0% 5.0%	0.2% 0.5% 0.5%	0.5% 3.0% 4.0%	 4.0% 4.0%
FLU3-65-6AD	V1 +5 V2 +15 V3 -15	0.00 0.00 0.00	5.00 1.30 1.30	6.00 2.00 2.00	1.0% 5.0% 5.0%	0.2% 0.5% 0.5%	0.5% 3.0% 4.0%	— 4.0% 4.0%

65W

OPEN-FRAME SWITCHING POWER SUPPLIES

0.150



Pin-Out

Pin	FLU2-65	LPU3-65 FLU3-65
1	Comm	V1
2	Comm	V1
3	V2	V1
4	V2	V1
5	Comm	V1 Comm
6	Comm	V1 Comm
7	Comm	V2 Comm
8	V1	V2
9	V1	V3 Comm
10	V1	V3
11	N/A	N/A
12	N/A	N/A

- FLU2-65 SERIES A. Dimensions shown are in inches.
- B. Tolerances = 0.00 ± 0.01 inch. 0.000 ±0.005 inch.
- C. P1 input connectors are Molex 26-62-4030. The mating connector combines Molex housing 43061-0003 and crimp terminal 08-70-1030.
- D. P2 output connectors are Molex 26-60-4100. The mating connector combines the Molex housing 43061-0010 and the Molex crimp terminal 08-70-1030.

Notes

- 1. Electrical strength/isolation is 2200 VDC from the input of the supply to ground for 60 seconds.
- All measurements are made directly at the power supply terminals.
- Peak-to-peak and RMS metering equipment must have a 20 MHz frequency response with probes and cables that maintain a frequency response of 20 Hz to 20 MHz. Output ripple and spikes are measured directly at the output terminals of the power supply with a $0.1~\mu\text{F}$ ceramic capacitor. The probe ground band must make direct contact with the output return or the common terminal of the power supply to prevent erroneous noise measurements.
- Output voltage tolerance is measured under nominal load current conditions specified for the power supply.
- Line regulation is measured under nominal load conditions as the input voltage is varied from 85 to 265 VAC (ac-input models) or from 36 to 75 VDC (dc-input models).
- Load regulation is measured at 115 VAC or 230 VAC input. The output under test is brought to 60% of nominal load; load current is then varied +40%/-30% of nominal while other outputs are held at nominal load conditions.
- 7. Cross-regulation is tested by changing the load on the primary output from 50% to 100% of nominal load while measuring the voltage change on the auxiliary output under test.
- The FLU2-65 and FLU3-65 series are approved to UL1950 (File E140439), and CAN/CSA22.2 No. 234 (File LR52335). The FLU3-65 series is approved to EN60950/IEC950/DIN VDE 0805 (TÜV Licenses R9071576 and R9071575), as is FLU2-65-3AD (TÜV License R0097629).

0.166 DIA (4 PLACES)

LPU3-65, FLU3-65 SERIES

- A. Dimensions shown are in inches.
- B. Tolerances = 0.00 ± 0.01 inch. 0.000 ±0.005 inch.
- C. P1 input connectors are Molex 26-60-4051. The mating connector combines Molex housing 43061-0005 and Molex crimp terminal 08-70-1030.
- D. P2 output connectors are Molex 26-60-4120. The mating connector combines Molex housing 43061-0012 and Molex crimp terminal 08-70-1030.

