

# JDM65 Series

## 65 Watts

### Single & Dual Output Switching Power Supply

#### Features:

- \* Small 5.00 x 3.00 x 1.34" Open Frame Package
- \* Convection Cooled Operation
- \* Universal AC Input (47-63 Hz)
- \* 100,000 hours MTBF (25°C Full Load Operation)
- \* Optional -40°C Operating Temperature
- \* Class B Emissions
- \* International Safety Approvals & CE Mark
- \* 3 Year Warranty



#### Input Specifications:

Input Range	Universal VAC (90-264 VAC) & 120-370 VDC
Input Frequency	47-63 Hz or DC
Inrush Current	25A @ 115VAC / 50A @ 230VAC max (cold start)
Input Current	1700mA @ 90 VAC / 750mA @ 200 VAC Maximum
Input Reflected Ripple	FCC 68 part 15 Class B
Efficiency	65% Typical (depending on output model)
Input Protection	Single Fused (4 Amp / 250 V)
Hold-up Time	Half Cycle Minimum @ 120 VAC and 80% load
Leakage Current	<750 $\mu$ A maximum @ 264 VAC
Harmonics	EN61000-3-2 Class D

#### Output Specifications:

Adjustment Range	Fixed at Factory
Minimum Load	See Output Table
Regulation	V1 = 3%   V2 = 10% max
Ripple / Noise	$\pm$ 1% pk-pk max (20MHz)
Transient Response	+/- 5% Deviation / < 1msec recovery
Set-Point Accuracy	$\pm$ 2%
Short Circuit Protection	Continuous
Over Load Protection	125-150%, automatic recovery
Over Voltage Protection	120-150%, latched shutdown

#### Emissions Standards

FCC Part 15J, Part 2	Within Class B Limits
EN55022 / CISPR22	Within Class B Limits

#### Electromagnetic Compatibility:

Electrostatic Discharge	EN61000-4-2, $\pm$ 4KV Contact / $\pm$ 8KV Air Discharge
Radiated Susceptibility	EN61000-4-3, 26-1000MHz, 10V/M, 80% AM
EFT / Bursts	EN61000-4-4, $\pm$ 2KV
Surges	EN61000-4-5, $\pm$ 2KV Line-Earth, $\pm$ 1KV Line-Line
Conducted Immunity	EN61000-4-6, 0.15 - 800MHz, 10V, 80% AM
Voltage Dips	EN61000-4-11, 95% Dip & 10ms, 30% Dip & 500ms
Voltage Interruptions	EN61000-4-11, 95% Reduction, 5s
Radiated Emissions	FCC 68 part 15 Class B
Conducted Emissions	FCC 68 part 15 Class B
Harmonic Current	EN61000-3-2 Class D
Fluctuations & Flicker	EN61000-3-3

#### Environmental Specifications:

Operating Temp	0 ~50°C (De-Rate 2.5%/1°C Rise To +70°C)
Storage Temp	-20 ~ +85°C
Cooling	31.5 cfm airflow required for full load or derate 25%
Temp Co-Efficient	0.05% per degrees celsius
Humidity	5 to 95% RH Non-Condensing
Vibration	3 Axes 1 Oct/min, 5 min at 4 Res. 0.75G Pk, 5-500Hz
Shock	20G Peak Acceleration
Reliability	>100k hours MTBF (Full Load and 25°C Operation)

#### International Safety Approvals

Standards	UL 60950 (3rd Edition), File # E158470 CSA 22.2 No. 60950 TUV EN60950 CB Report (IEC 60950-1), File # E158470-A3-CB-1 CE Mark (LVD)
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## Output Table:

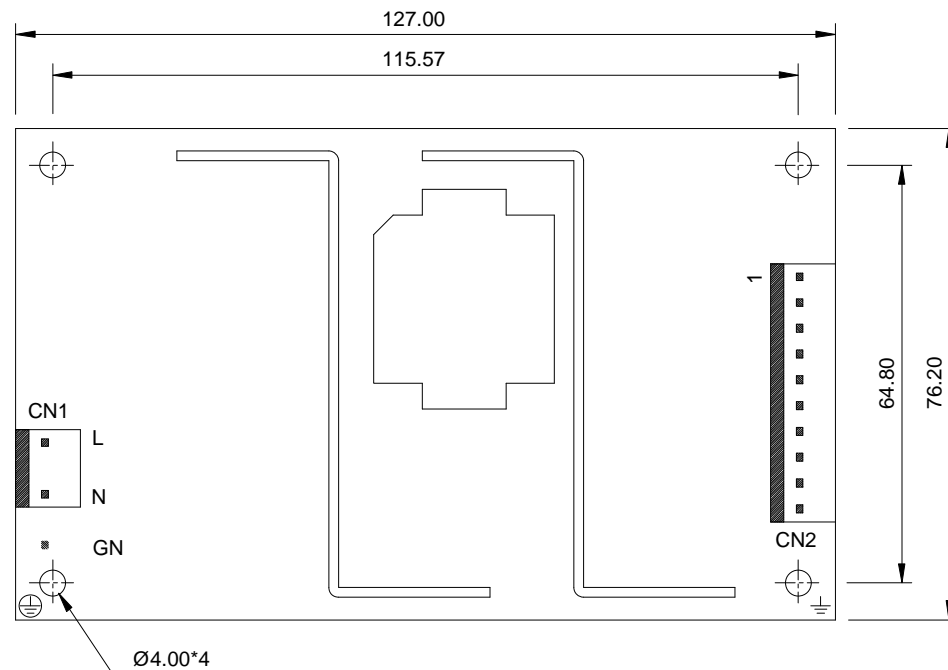
Model Number	Max Power	V1	Io Min	Io Max	V2	Io Min	Io Max
JDM65-3.3V	50 Watts	3.3VDC	2000mA	15.0A	-	-	-
JDM65-21	65 Watts	+3.3VDC	2000mA	15.0A	+5VDC	200mA	2.0A
JDM65-22	65 Watts	+3.3VDC	2000mA	15.0A	+12VDC	100mA	1.0A
JDM65-23	65 Watts	+5VDC	2000mA	13.0A	+12VDC	100mA	1.0A
JDM65-24	65 Watts	+5VDC	2000mA	13.0A	+3.3VDC	200mA	2.0A
JDM65-25	65 Watts	+12VDC	500mA	5.0A	+5VDC	200mA	2.0A
JDM65-26	65 Watts	+12VDC	500mA	5.0A	+3.3VDC	200mA	2.0A

Total continuous output power not to exceed 65 watts.

## Mechanical Specifications:

Construction: Open Frame

Weight: 0.635 lb / 0.288 kg



## Input Pin Assignmets:

CN1-1 Line  
CN1-2 Neutral

## Output Pin Assignmets:

Pin	Single	Dual
CN2-1	NC	V2
CN2-2	V1	V1
CN2-3	V1	V1
CN2-4	V1	V1
CN2-5	RTN	RTN
CN2-6	RTN	RTN
CN2-7	RTN	RTN
CN2-8	RTN	RTN

## Mating Connectors:

CN1 (AC Input) Mating Connector:  
Molex 09-65-2038 or equivalent

CN2 (DC Output) Mating Connector:  
Molex 09-65-2108 or equivalent