

Features

- Fixed, regulated output voltage
- Wide input voltage range
- Compact construction



Input Specification

Parameter	Conditions / Description	Min.	Nom.	Max.	Units
Voltage	Universal-AC Input normal voltage	100	115/230	240	VAC
	Universal-AC Input ranging voltage	90	115/230	264	VAC
Current	@115 VAC 90 W Load	--	--	2	A rms
	@230 VAC 90 W Load	--	--	1	A rms
Frequency	Auto-ranging	47	50/60	63	Hz

Cold Start @ 115 VAC @ 25 °C 60 A

Cold Start @ 230 VAC @ 25 °C 100 A

Output Specification

Voltage (VDC)		Load Range (A)		Line Regulation (%)	Load Regulation (%) (Note 1)	Ripple&Noise (PARD) (mVp-p) (Note 2)
		MIN.	Max. (Convection)			
S2	+12V	0 A	7.5 A	±0.5%	11.4 ~ 12.6 VDC (±5 %)	240 mVp-p

Note : 1.Load regulation is tested at 10% to 100% of rated load.

2. Peak-to-peak for 90W (convection rating) @115Vac MIN. ; Measurements with a 20MHz bandwidth and terminated with a 22uF electrolytic Cap. in parallel with a 0.1uF ceramic Cap

Overshoot / Undershoot

Turn-on / Turn-off < 10%

General Specification

Efficiency

Full Load @ 115 VAC > 85%

Full Load @ 230 VAC > 85%

Minimum Average Efficiency in Active Mode ≥ 89%

Maximum Power in No Load mode (W) ≤ 0.15

DoE Level VI , ErP CoC V.5, Tier II Meets

Power Factor Correction @ 115 VAC Full Load > 0.9

Power Supply Unit



Turn-on Time

Full Load @ 115 VAC < 3 sec

Hold-up Time

Full Load @ 115 VAC > 16 msec

Safety Ground Leakage Current

Class II Type @ 230 VAC 50 Hz < 0.25 mA

Withstand (Isolation) Voltage (UL60950-1 ; EN60950-1 2nd)

4242 VDC, 1 min from Input(L1&L2) to Output < 10 mA

2952 VDC, 1 Minute from Input(L1&L2) to Earth < N/A

Insulation Resistance

Input(L1&L2) to Output @ DC 500 V > 100 MΩ

Input(L1&L2) to Earth @ DC 500 V > N/A

MTBF

Full Load, MIL-HDBK-217F @ 25 °C > 100 kHours

Weight

Not Include Packing < 480 g

Protection Specification

Brown-Out Protection (Input Voltage drops down to zero then back to nominal slowly)

All Outputs Hiccup / Auto-recovery

Overvoltage Protection (Latch)

V1 Overvoltage Range 110% ~ 200%

Overcurrent(Overload) Protection (Overcurrent Range @ 110 % ~ 200 % above Rating Load)

All Outputs Hiccup / Auto-recovery

Short Circuit Protection:

All Outputs Hiccup / Auto-recovery

Electromagnetic Compatibility Specifications

FCC PART 15 Conducted / Radiated Emissions Class B

CISPR 32 Conducted / Radiated Emissions Class B

EN55032 Conducted / Radiated Emissions Class B

Harmonic Current

EN61000-3-2 Class A (Power Factor Correction) Meet

Voltage Variation Immunity (Flicker)

EN61000-3-3 Compliant

Electrostatic Discharge (ESD) Susceptibility

EN61000-4-2 ; ± 8 kV Air Discharge Criterion A

EN61000-4-2 ; ± 4 kV Contact Discharge Criterion A

Radiated Susceptibility(RS)

EN61000-4-3 ; 3 V/M Criterion A

Electrical Fast Transient(EFT)/Burst

EN61000-4-4 ; Impulse ±1 kV Criterion A

Surge Susceptibility (Input Transient Protection)

EN61000-4-5 ; ± 1 kV Line(L1) to Neutral(L2) Criterion A

EN61000-4-5 ; ± 2 kV Line(L1) & Neutral(L2) to Earth N/A

Power Supply Unit



Conducted RF Immunity

EN61000-4-6 ; 3V Criterion A

Voltage Dips / Interruptions

EN61000-4-11 ; Dips Criterion A

EN61000-4-11 ; Interruptions Criterion B

Safety Standards Specifications

UL 60950-1 Certified

cUL 60950-1 Certified

TUV EN 60950-1 Certified

CB Report (IEC 60950-1) Certified

CE Certified

BSMI Certified

Environmental Specifications

Temperature

Operating Range 0 ~ 40 °C

Storage Range -40 ~ 85 °C

Derating Output (40 ~ 60 °C) -2.5% per °C

Relative Humidity

Non-Condensing 5 % ~ 95 % RH

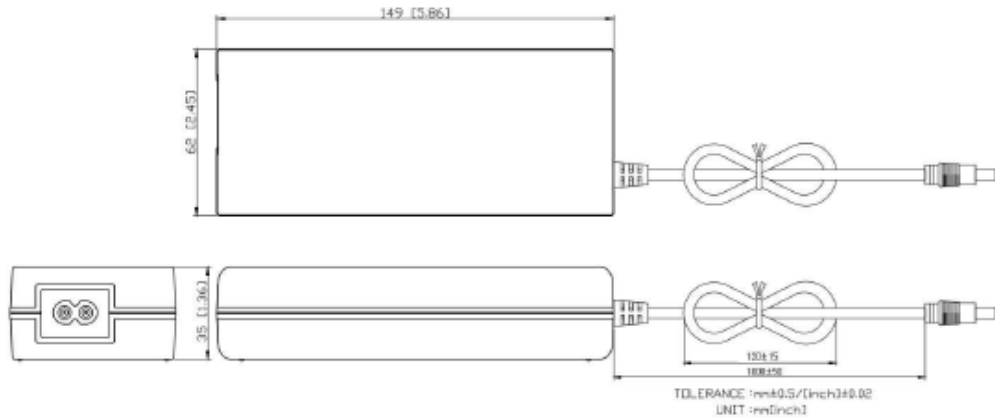
Vibration

Random — Operating , 3 Axes , 50 ~ 500 Hz , 10 Minutes / Axis 2.4 Grms Max.

Shock

Operating , Half Sine , 3 Axes , 10 mS , 6 Shocks Total 20 Gpk Max.

Mechanical Specifications



Connector Types & Pin Assignments

Connector Number	Connector Type	Pin Number	Signal
AC Inlet (Input)	IEC320 C8 AC Inlet	Pole 1 Pole 2	LINE NEUTRAL
(Output)	DC CORD 5.5x2.1x11mm 180 degree UL2095 4C 16AWG L = 1000mm (M01-0210-100103) <REV.:A >	INNER OUTTER	+OUTPUT RETURN

Note : (5.5x2.1x11 Plug Max. Current Rating : 5 A)