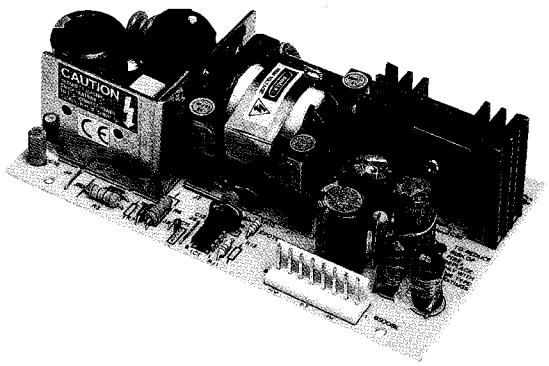
RSG ELECTRONIC COMPONENTS
RSG Electronic Components GmbH ▪ Sprendlinger Landstr. 115 ▪ D-63069 Offenbach/Germany
Tel. +49 69 984047-0 ▪ Fax +49 69 984047-77 ▪ info@rsg-electronic.de ▪ **www.rsg-electronic.de**

65 WATT SWITCHING POWER SUPPLIES

DESCRIPTION

PU65 SERIES CE (LVD)

The PU65 series of compact, open PCB constructed, AC-DC switching power supplies are capable of delivering 50 to 65 watts of continuous power. They operate at 85 to 264 VAC input voltage without the need of voltage selection. They are ideally suited for use in CRT terminals, disc drive systems, microprocessor based systems, portable equipment and many other applications. All models meet the safety requirements of UL, CSA and IEC.



FEATURES

- **Recognized or certified by UL, CSA and TÜV**
- **Small size, light weight**
- **100% burn-in**
- **Wide input range 85 to 264 VAC**
- **Input surge current protection**
- **Overvoltage protection**
- **Overcurrent protection**

Safety Standard Approvals:

UL 1950
File No. E137410

C22.2 No. 950
File No. LR93632

EN 60950
Certificate No. R9172041

INPUT SPECIFICATIONS

Input voltage:	85 to 264 VAC
Input frequency:	47 to 63 Hz
Input current:	1.60A (rms) for 115VAC 1.00A (rms) for 230VAC
Leakage current:	0.47mA max.@ 115VAC, 60Hz 0.85mA max.@ 230VAC, 50Hz

ENVIRONMENTAL SPECIFICATIONS

Operating temperature :	0℃ to +70℃
Storage temperature :	-40℃ to +85℃
Relative humidity :	5% to 95% non-condensing
Derating :	Derate from 100% at +50℃ linearly to 50% at +70℃

OUTPUT SPECIFICATIONS

Output voltage/current :	See rating chart
Total output power:	65 watts maximum
Ripple and noise :	1% peak to peak max.
Overvoltage protection :	Provided on output #1 only; set at 112-132 % of its nominal output voltage
Overcurrent protection :	All outputs protected to short circuit conditions
Temperature coefficient :	All outputs +/-0.04%/ ℃ maximum
Transient response :	Maximum excursion of 4% or better on all models, recovering to 1% of final value within 500us after a 25% step load change

GENERAL SPECIFICATIONS

Switching frequency :	32KHz +/-5KHz
Efficiency :	70% minimum on single output models with Vo ≧12V, 65% minimum on the others
Hold-up time :	10 msec minimum at 110VAC
Line regulation :	+/-0.5% maximum at full load
Inrush current :	15 amps @ 115VAC, or 30 amps @ 230VAC, at 25℃ and cold start
Withstand voltage :	3000VAC from input to output 1500VAC from input to ground 500VAC from output to ground
MTBF :	400,000 hours minimum at full load at 25℃ ambient, calculated per MIL-HDBK-217F
EMI requirements :	Meets conducted limits of (a) FCC Level B (b) EN 55022 Class B
Safety requirements :	Meets or Exceeds: (a) UL 1950 (b) CSA C22.2 No. 950 (c) IEC 950 (EN 60950)

RSG ELECTRONIC COMPONENTS
RSG Electronic Components GmbH ▪ Sprendlinger Landstr. 115 ▪ D-63069 Offenbach/Germany
Tel. +49 69 984047-0 ▪ Fax +49 69 984047-77 ▪ info@rsg-electronic.de ▪ **www.rsg-electronic.de**
Änderungen vorbehalten / subject to change without notice

UNIVERSAL INPUT — PU65 SERIES

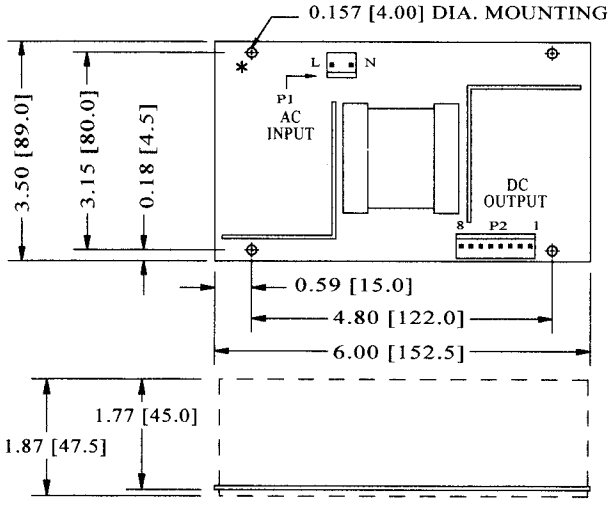
OUTPUT VOLTAGE/CURRENT RATING CHART

Model	Output #1 Vnom. Imin. Imax. Tol.	Output #2 Vnom. Imin. Imax. Tol.	Output #3 Vnom. Imin. Imax. Tol.	Output #4 Vnom. Imin. Imax. Tol.	Maximum Output Power
PU65-10	5V 0A 10A 2%	(N/A)	(N/A)	(N/A)	50W
PU65-12	12V 0A 5.5A 1%	(N/A)	(N/A)	(N/A)	65W
PU65-13	15V 0A 4.5A 1%	(N/A)	(N/A)	(N/A)	65W
PU65-14	24V 0A 3.0A 1%	(N/A)	(N/A)	(N/A)	65W
PU65-23	+5V 1A 6.0A 3%	+12V 0.5A 3.0A 5%	(N/A)	(N/A)	65W
PU65-24	+5V 1A 6.0A 3%	+15V 0.4A 3.0A 5%	(N/A)	(N/A)	65W
PU65-25	+5V 1A 6.0A 3%	+24V 0.3A 2.0A 5%	(N/A)	(N/A)	65W
PU65-30	+5V 1A 6.0A 3%	+12V 0.5A 3.0A 5%	-5V 0.1A 0.5A 10%	(N/A)	65W
PU65-31	+5V 1A 6.0A 3%	+12V 0.5A 3.0A 5%	-12V 0.1A 0.5A 10%	(N/A)	65W
PU65-32	+5V 1A 6.0A 3%	+15V 0.4A 3.0A 5%	-15V 0.1A 0.5A 10%	(N/A)	65W
PU65-33	+5V 1A 6.0A 3%	+15V 0.4A 3.0A 5%	-12V 0.1A 0.5A 10%	(N/A)	65W
PU65-35-1	+5V 1A 6.0A 3%	+24V 0.3A 1.2A 5%	-24V 0.2A 1.0A 10%	(N/A)	65W
PU65-39	+5V 1A 6.0A 3%	+24V 0.3A 2.0A 5%	-12V 0.1A 0.5A 10%	(N/A)	65W
PU65-40	+5V 1A 6.0A 3%	+12V 0.5A 3.0A 5%	-12V 0.1A 0.5A 10%	-5V 0.1A 0.50A 10%	65W
PU65-45-1	+5V 1A 6.0A 3%	+15V 0.2A 1.0A 5%	+25V 0.1A 0.75A 10%	-12V 0.1A 1.0A 10%	65W

Notes: (1) All multiple output models may be operated at no-load without damage. At no-load, output voltage tolerance increases to 10%.

(2) Safety agency approvals are for the above listed models in PCB format. To order a model with a metallic L-bracket or box, add suffix "B" for L-bracket format or "C" for enclosed format to the model number (mechanical details shown in page 7-2), e.g. PU65-25C.

MECHANICAL SPECIFICATIONS



NOTES:

1. Dimensions shown in inch [mm]
2. Tolerance 0.02 [0.5] maximum
3. Input connector mates with Molex housing 09-50-3031 and Molex 2878 series crimp terminal.
4. Output connector mates with Molex housing 09-50-3081 and Molex 2878 series crimp terminal.
5. Weight: 400 grams (PCB format).
6. The "*" marked mounting hole is for system grounding through a metallic stand-off to the system chassis.

PIN CHART

MODEL \ PIN	1	2	3	4	5	6	7	8
PU65-10 PU65-12 PU65-13 PU65-14	OUTPUT #1	OUTPUT #1	OUTPUT #1	OUTPUT #1	RETURN	RETURN	RETURN	RETURN
PU65-23 PU65-24 PU65-25	OUTPUT #1	OUTPUT #1	COMMON RETURN	COMMON RETURN	OUTPUT #2	OUTPUT #2	N.C.	N.C.
PU65-30 PU65-31 PU65-32 PU65-33 PU65-35-1 PU65-39	OUTPUT #1	OUTPUT #1	COMMON RETURN	COMMON RETURN	OUTPUT #2	OUTPUT #2	OUTPUT #3	N.C.
PU65-40 PU65-45-1	OUTPUT #1	OUTPUT #1	COMMON RETURN	COMMON RETURN	OUTPUT #2	OUTPUT #2	OUTPUT #3	OUTPUT #4