

Switchbox SPU65 Series

50 - 80W SINGLE & MULTIPLE OUTPUT AC/DC GENERAL

Features

- Wide input voltage 90 to 264 VAC, 47 to 63 Hz
- IEC-320-C14 input inlet
- Single to triple output
- Output voltage available from 3 VDC thru 48 VDC
- Input surge current, over voltage, over load protection
- Reliable design concept



Specifications

INPUT

Voltage range	90-264VAC sinewave.
Withstand voltage	4242VDC primary to secondary. 2121VDC primary to ground.
Isolation resistance	50M @500VDC.
Frequency	47-63Hz.
Input current	1.9A @ 115VAC full load, 1.5A @ 230VAC full load.
Inrush current	15A max @ 115VAC, or 30A max @ 230VAC at 25°C cold start.
Input connector	C14 type, Class I.

OUTPUT

Power	0W to 80W.
Voltage	See table.
Current	See table.
Ripple and noise	1% p-p max.
Efficiency	83% typ @ 230VAC full load.
Hold up time	16mS min.
Start up time	2S max.
Line regulation	1% max full load.
Load regulation	5% max @ 230VAC.
Overvoltage protection	132% max.
Overcurrent protection	150% max.
Transient response	4mS max.
Temperature coefficient	0.04%/°C all outputs.

ENVIRONMENTAL

Operating temperature	0°C to +70°C.
Storage temperature	-40°C to +85°C.
Humidity	5% to 95% non-condensing.
Derating	Derated from 100% at +50°C linearly to 50% at +70°C.

GENERAL

Connectors	Standard output connector is B1 for single output and 5 pin DIN plug for multiple output versions.
Dimensions	168 x 78.5 x 44.5 mm.
Weight	570-750g.

STANDARDS

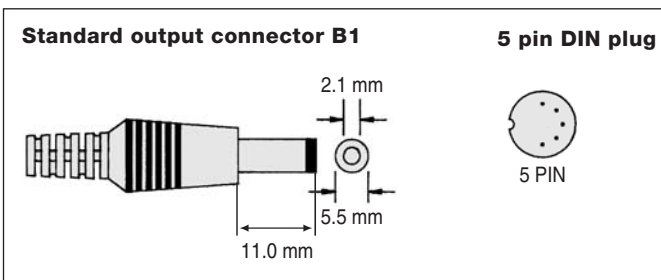
Safety standards	Meets or exceeds UL1950.
RFI/EMI standards	FCC Part 15, CISPR-22.
CE mark	Yes.
Isolation class	Class I.

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MODEL NUMBER	OUTPUT VOLTAGE	OUTPUT CURRENT	TOTAL REGULATION	MAX OUTPUT POWER
SINGLE OUTPUT				
SPU65-101	3~5VDC	16.6~10.0A	10%	50W
SPU65-102	5~6VDC	13.0~10.8A	7%	65W
SPU65-103	6~8VDC	11.6~8.70A	5%	69.6W
SPU65-104	8~11VDC	9.37~6.81A	5%	75W
SPU65-105	11~13VDC	7.27~6.15A	5%	80W
SPU65-106	13~16VDC	6.15~5.00A	5%	80W
SPU65-107	16~21VDC	5.00~3.80A	5%	80W
SPU65-108	21~27VDC	3.80~2.96A	5%	80W
SPU65-109	27~33VDC	2.96~2.42A	5%	80W
SPU65-110	33~40VDC	2.42~2.00A	5%	80W
SPU65-111	40~48VDC	2.00~1.66A	5%	80W

MODEL NUMBER	OUTPUT #1				OUTPUT #2				OUTPUT #3				MAX OUTPUT POWER	
	Vnom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax		
MULTIPLE OUTPUT														
SPU65-200	+3.3V	0.5A	7A	5%	+12V	0.1A	2.7A	5%						56.1W
SPU65-201	+5V	0.5A	7A	5%	+12V	0.3A	3A	5%						60W
SPU65-202	+5V	0.5A	7A	5%	+15V	0.1A	3A	5%						60W
SPU65-203	+5V	0.5A	7A	5%	+24V	0.2A	2A	5%						60W
SPU65-204	+3.3V	0.5A	7A	5%	+5V	0.1A	3A	5%						38.1W
SPU65-215	+5V	0.5A	7A	5%	-24V	0.2A	2A	5%						60W
SPU65-300	+3.3V	0.3A	7A	5%	+12V	0.1A	3A	5%	-12V	0A	0.8A	5%		65W
SPU65-301	+5V	0.5A	6A	5%	+12V	0.1A	2.7A	5%	-5V	0A	0.3A	5%		65W
SPU65-302	+5V	0.5A	6A	5%	+12V	0.1A	2.1A	5%	-12V	0A	0.3A	5%		59.4W
SPU65-303	+5V	0.5A	6A	5%	+15V	0.1A	2.1A	5%	-15V	0A	0.2A	5%		65W
SPU65-304	+5V	0.5A	7A	5%	+24V	0.1A	2A	5%	-24V	0A	0.5A	5%		65W
SPU65-305	+5V	0.5A	6A	5%	+24V	0.1A	1.2A	5%	-12V	0A	0.4A	5%		65W
SPU65-306	+5V	0.5A	7A	5%	+12V	0.1A	3A	5%	-5V	0A	0.8A	5%		65W



Ordering information:

Example	PSU 65	-102/5.0	5p DIN
	Powerbox article no	5.0 volt version	Connector

Powerbox recommend B1 output connector for up to 5A output currents and 5p DIN for higher output currents.