

Switchbox SPU 45E Series

24 - 50 W SINGLE, DUAL, AND TRIPLE OUTPUT AC/DC GENERAL

Features

- Desktop type
- Wide input voltage 90VAC to 264VAC, 50/60Hz
- IEC320 input inlet, class I
- Output voltage available from 2VDC to 50VDC
- Input surge current, overvoltage, overload protection
- Reliable design concept



Specifications

INPUT

Voltage range	90-264VAC.
Withstand voltage	3000VAC from input to output. 1500VAC from input to ground. 500VDC from output to ground.
Frequency	47-63Hz.
Input current	1.0A max.
Inrush current	15A @ 115VAC, or 60A @ 230VAC at 25°C cold start.
Input connector	Class I type.

OUTPUT

Voltage	Factory preset, see table (not adjustable).
Ripple and noise	1% p-p max.
Overvoltage protection	Provided on output #1 only: set at 112-132% of its nominal output voltage.
Overcurrent protection	No, but all outputs protected to short circuit conditions.
Temperature coefficient	All outputs $\pm 0.04\%/^{\circ}\text{C}$ max.
Transient response	4% or better on all models. Recovering to 1% of final value within 500 μs after a 25% step load change.
Efficiency	75% typical at I_o @ full load, $V_{in}=230\text{VAC}$.
Hold up time	10mS min.
Line regulation	$\pm 0.5\%$ max at full load.
Output connector	Single output: Barrel jack 2.1 mm/5.5 mm. Multiple output: DIN-type.

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

MTBF	100.000 hours at full load at 25°C ambient.
Dimensions	146 x 76 x 43 mm.

STANDARDS

Safety standards	Meets or exceeds UL1950, CSA C22.2 No 234, IEC950.
RFI/EMI standards	Meets conduction limits of FCC 20780 Class B, CISPR Class B.
EMC	EMC filtering to meet EN55022 Class B conducted.
CE mark	Yes, declaration of conformity available.

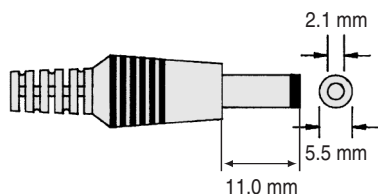
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MODEL NUMBER	OUTPUT VOLTAGE	OUTPUT CURRENT	TOTAL REGULATION	MAX POWER	SUGGESTED OUTPUT PLUG
SINGLE					
SPU45E-100	2~3VDC	8.0A	7%	24W	5P DIN
SPU45E-101	3~5VDC	8.0A	5%	40W	5P DIN
SPU45E-102	5~6VDC	8.0~6.66A	5%	40W	5P DIN
SPU45E-103	6~8VDC	7.0~5.25A	5%	42W	5P DIN
SPU45E-104	8~11VDC	5.63~4.0A	5%	45W	5P DIN
SPU45E-105	11~13VDC	4.0~3.46A	5%	45W	B1
SPU45E-106	13~16VDC	3.46~2.81A	5%	45W	B1
SPU45E-107	16~21VDC	2.75~2.38A	5%	50W	B1
SPU45E-108	21~27VDC	2.30~1.85A	5%	50W	B1
SPU45E-109	27~33VDC	1.85~1.51A	5%	50W	B1
SPU45E-110	33~40VDC	1.51~1.25A	5%	50W	B1
SPU45E-111	40~50VDC	1.25~1.0A	5%	50W	B1

ARTICLE NUMBER	OUTPUT #1				OUTPUT #2				OUTPUT #3				MAX POWER	
	Vnom	Imin	Imax	Tol	Vnom	Imin	Imax	Tol	Vnom	Imin	Imax	Tol		
DUAL/TRIPLE														
SPU45E-200	+3.3V	0.7A	5A	5%	+12V	0.4A	2A	5%			N/A			40W
SPU45E-201	+5V	0.5A	5A	5%	+12V	0.2A	2A	5%			N/A			42W
SPU45E-202	+5V	0.5A	5A	5%	+15V	0.2A	1.5A	5%			N/A			42W
SPU45E-203	+5V	0.5A	5A	5%	+24V	0.1A	1A	5%			N/A			42W
SPU45E-204	+3.3V	0.7A	5A	5%	+5V	0.4A	2A	5%			N/A			26.5W
SPU45E-209	+12V	0.5A	3A	5%	-12V	0.2A	1A	5%			N/A			42W
SPU45E-210	+15V	0.5A	2A	5%	-15V	0.2A	1A	5%			N/A			42W
SPU45E-215	+5V	0.5A	5A	5%	-24V	0.1A	1A	5%			N/A			42W
SPU45E-216	+5.1V	0A	1A	5%	+7.2V	0.2A	2.6A	5%			N/A			23.8W
SPU45E-300	+3.3V	0.5A	5A	5%	+12V	0.2A	2A	5%	-12V	0.16A	0.8A	10%		42W
SPU45E-301	+5V	0.5A	5A	5%	+12V	0.2A	2A	5%	-5V	0.16A	0.8A	10%		42W
SPU45E-302	+5V	0.5A	5A	5%	+12V	0.2A	2A	5%	-12V	0.16A	0.8A	10%		42W
SPU45E-303	+5V	0.5A	5A	5%	+15V	0.2A	2A	5%	-15V	0.16A	0.8A	10%		42W
SPU45E-304	+5V	0.5A	5A	5%	+24V	0.1A	1A	5%	-24V	0.10A	0.5A	10%		42W
SPU45E-305	+5V	0.5A	5A	5%	+24V	0.1A	1A	5%	-12V	0.16A	0.8A	10%		42W
SPU45E-306	+3.3V	0.5A	5A	5%	+12V	0.2A	2A	5%	-5V	0.16A	0.8A	10%		42W

Standard output connector B1 for single output version



Standard output connector NIL5 (5 pin DIN plug) for dual & triple output version, and single output high current versions



Ordering information: Output voltage factory preset to value within voltage range shown in table. Specify output voltage * at order.

Example **SPU 24-102 / 5.0 - OUTPUT CONNECTOR**

Powerbox article no

5.0 volt version

Standard output connector:
Single output B1
Dual & triple output NIL 5