











USW2 is a compact (<22 mm width) power supply developed according to USB standard. It is aimed to be used for standard in-wall modules. The PCB can be assembled in various custom made enclosures in order to remain compliant to the customer's design needs.

■ Main Features

- Ultra compact in-wall USB Power Supply (< 22mm width)
- Developed according to USB standard
- Modular PCB can be assembled in various custom made enclosure

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TECHNICAL DATA

TECHNICAL DATA			
Model type		USW2A	
OUTPUT DATA			
Output voltage		5Vdc ±10%	
Continuous current		1A 1.25A	
Overload limit			
Short circuit peak current		1.50A	
Load regulation		≤2%	
Ripple & Noise ¹		≤100mVpp	
Hold up time		. 25	
Vin = 120Vac Vin = 230Vac		≥ 25ms ≥ 80ms	
Protections		Constant current at the overload limit with auto reset	
INPUT DATA			
Input AC rated voltage		Nominal: 120240Vac	
Frequency		Range: 90264Vac	
		4763Hz	
Input DC rated voltage		110345Vdc	
Input AC rated current			
Vin = 120Vac		120mA	
Vin = 230Vac		70mA	
Input DC rated current			
Vin = 110Vdc		80mA	
Vin = 345Vdc		40mA	
Internal protection fuse		Fuse Resistor 10Ω (not user replaceable)	
GENERAL DATA			
Efficiency		> 73%	
Dissipated power		< 60mW	
Operating temperature		- 20°C+ 60°C	
Storage temperature		- 40°C+ 80°C	
Humidity		595% r.H. non condensing	
Overvoltage category	■ EN50178	II	
Pollution degree	■ IEC60664-1	2	
Input / output isolation		4.2kVdc	
Safety Standards	■ UL508	(reference)	
	■ EN60950	(reference)	
	■ EN50178	(reference)	
5146.5	■ EN55011 (CISPR11)	Class B	
EMC Emission	■ EN55022 (CISPR22)	Class B	
EMC Immunity	■ EN61000-4-2	Level 2	
	■ EN61000-4-3	Level 2	
	■ EN61000-4-4	Level 2	
	■ EN61000-4-5	Level 2	
	■ EN61000-4-11	Level 2	
Protection degree	■ EN60529	IP20	
Vibration sinuosoidal	■ IEC 60068-2-6	(5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2hours / axis (X,Y,Z)	
Shock	■ IEC 60068-2-27	(30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total)	
Connection terminals Input		1.5mm², screw type header (2416AWG)	
Connection terminals Output		USB-A female connector	
Case material		ABS, Flame retardant UL94 V-0	
Weight		25g	
AACIB11[16.7 x 35.5 x 42mm (PCB dimension)	
Size (W x H x D)		To be hosted in a standard 22mm switch type housing	
1) Dipple and Noise are massured with 20MHz	handwidth, proho terminated with a 0.1 uE MAKE	dwidth_probe terminated with a 0.1µF MKP parallel capacitor	

¹⁾ Ripple and Noise are measured with 20MHz bandwidth, probe terminated with a 0.1µF MKP parallel capacitor.

- Notes:

 Technical parameters are typical, measured in laboratory environment at 25°C and 230Vac / 50Hz, at nominal values, after minimum 5 minutes of operation.

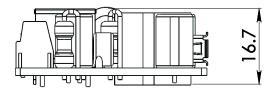
 Power rating, losses, efficiency, ripple, thermal behaviour and start-up may change outside of the nominal rated input range. Contact factory for details.

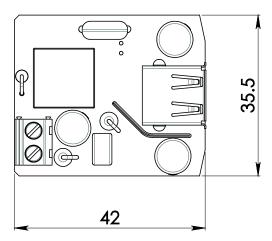
 Data may change without prior notice in order to improve the product.

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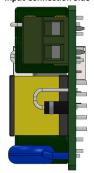
DIMENSIONS





CONNECTION

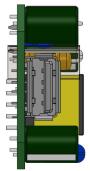
Input Connection Side



Single phase:

- L = Line N = Neutral







- 1 = VBUS (+5V)2 = Data (D-)
- 3 = Data (D+)
- 4 = GND

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