

RWS300 SERIES

AC/DC Power Supply Single Output: 300 Watts



Features

- Universal input 85 - 265VAC
- 300 watts output power - (1U low profile)
- Output voltage adjustment
- Short circuit and OVP protection
- Harmonic correction EN61000-3-2
- Power Factor 0.95
- EMC EN55022-B, Immunity to EN61000-4
- Remote ON / OFF option
- International safety approvals EN60950, UL60950

Specifications

Input Voltage	85 ~ 265VAC (300VAC 5 secs)
Input Freq.	47 ~ 63Hz
Input Current	3.8A / 2.1A
Power Factor	Typically 0.95
Harmonics	EN61000-3-2
Leakage Current	700µA max., typically 175µA at 115VAC
Output Power	300 watts
Efficiency	85 / 88% at 115 / 230VAC
Output Voltage	See table
Ripple & Noise	Model dependent: 150 ~240mV (5V ~ 48V)
Line Regulation	Model dependent: 40 ~96mV (5V ~ 48V)
Load Regulation	Model dependent: 40 ~380mV (5V ~ 48V)
Temp Co-efficient	0.02% per °C
Overload Protection	>105% Constant current limiting. With hiccup protection & auto recovery.
Overvoltage Protection	OVP will shutdown unit. Recycle AC power after 30 seconds to restart.
Hold-Up time	Typically 20ms
Remote Sense	N / A
Parallel Operation	N / A
Operating Temp.	-10°C to +70°C @ 100% load, +70°C @ 20% load
Humidity	10 ~ 90% RH no dewdrop
Cooling	Forced air by internal fan
Isolation	Input – Output / Case: 3000VAC / 2000VAC Output – Case: 500VAC
Safety	Approvals: UL60950, EN60950-1, EN50178
EMI	EN55011 / EN55022 – B
Immunity	EN61000-4-2, -3, -4, -5, -6, -8, -11.
Dimensions	102 x 41 x 190mm 1Kg (Includes terminals)

Description

The **RWS300** series power supplies are new generation low cost design, aimed at industrial applications.

The wide output voltage adjustment and Constant Current limiting, provides design flexibility for a wide range of applications.

Model	Output		Voltage Range	Power W
	V	A		
RWS300B-5	5V	50A	4.5 ~ 5.75V	250W
RWS300B-12	12V	25A	10.8 ~13.8V	300W
RWS300B-15	15V	20A	13.5 ~17.0V	300W
RWS300B-24	24V	12.5A	22~ 27.6V	300W
RWS300B-36	36V	8.4A	32 ~ 41.4V	300W
RWS300B-48	48V	6.3A	43 ~ 52.8V	300W

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