



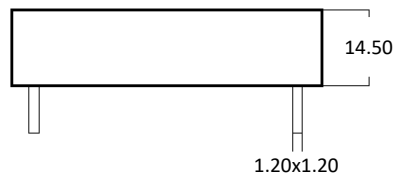
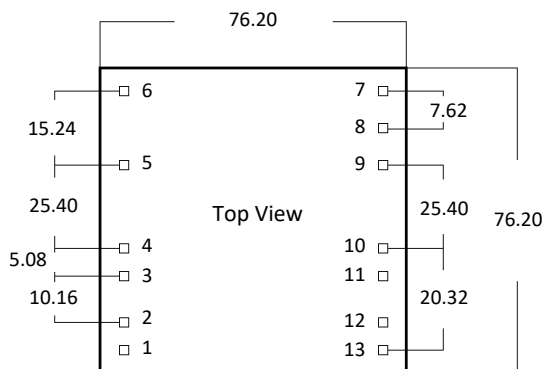
- 2:1 or 4:1 Voltage Input Range
- Metal Case
- MTBF: 2.000.000 Calculated Hours
- Single Output
- Up 6000V Isolation Available

### Electrical Shortform Specifications

Electrical Specification	Input Voltage:	See Product Chart Page 2
	Output Voltage (Vout):	See Product Chart Page 2
	Switch Frequency:	150kHz to 200kHz
	Ripple & Noise:	Max. 50mVp-p
	Efficiency:	Up to 88%
	Output Load Efficiency:	≤ ±1% (0% to 100% Load)
	TEMP. Coefficient:	≤ ±0.02% °C (Celsius)
	MTBF:	2.000.000 Hours
Protection (Auto Recovery)	Isolation I/O:	1000V / 0.5mA for 1min (Up to 6000V Isolation Available)
	Short Circuit Protection:	Short Circuit (1sec)
	Over Load Protection:	Yes
	Over TEMP. Protection:	Yes
Certifications & EMC	Approvals:	CE / RoHS
	EMC	EN61000
Environmental	Operating TEMP.:	-45°C to +85°C
	Storage TEMP.:	-45°C to +125°C
	Cooling:	Natural Cooling
Dimension & Material	Case Material:	Metal
	Case Size (L x W x H):	76.20 x 76.20 x 14.50mm
	Weight:	175g (±0.5)
	Soldering Temperature:	≤10sec 300°C Max.

**Note** - Non Load Operation for a Long time is Not Recommended  
For Complete Datasheet/Specification and Drawing Please Contact Power Outlet

### Drawing & Measurements: mm



WRDxxSxx - Single Output  
URDxxSxx - Single Output

Pin	Function
1	Vin
2	Vin
3	GND
4	GND
5	FG
6	CTN
7	-S
8	TRM
9	+S
10	0V
11	0V
12	+Vout
13	+Vout

## Product Chart

WRDxxSxx = 2:1 Input

Model	Input Voltage (Vdc)	Output Voltage (Vout)	Load Current (A)	Efficiency (%)	Ripple & Noise (mVp-p Max.)
WRD12S05 80W	12Vdc (9-18Vdc)	5	16.00	84	50
WRD12S09 80W		9	8.88	86	50
WRD12S12 80W		12	6.66	86	50
WRD12S15 80W		15	5.33	87	50
WRD12S24 80W		24	3.33	88	50
WRD24S05 80W	24Vdc (18-36Vdc)	5	16.00	84	50
WRD24S09 80W		9	8.88	86	50
WRD24S12 80W		12	6.66	86	50
WRD24S15 80W		15	5.33	87	50
WRD24S24 80W		24	3.33	88	50
WRD48S05 80W	48Vdc (36-72Vdc)	5	16.00	84	50
WRD48S09 80W		9	8.88	86	50
WRD48S12 80W		12	6.66	86	50
WRD48S15 80W		15	5.33	87	50
WRD48S24 80W		24	3.33	88	50
WRD110S12 80W	110Vdc (70-150Vdc)	12	6.66	86	50
WRD110S24 80W		24	3.33	88	50

\* For 3000V Isolation add Suffix "H3", 4000V Isolation "H4", 6000V Isolation "H6" (WRDxxSxxHx xxW)

URDxxSxx = 4:1 Input

Model	Input Voltage (Vdc)	Output Voltage (Vout)	Load Current (A)	Efficiency (%)	Ripple & Noise (mVp-p Max.)
URD12S05 80W	12Vdc (9-36Vdc)	5	16.00	84	50
URD12S09 80W		9	8.88	86	50
URD12S12 80W		12	6.66	86	50
URD12S15 80W		15	5.33	87	50
URD12S24 80W		24	3.33	88	50
URD24S05 80W	24Vdc (18-72Vdc)	5	16.00	84	50
URD24S09 80W		9	8.88	86	50
URD24S12 80W		12	6.66	86	50
URD24S15 80W		15	5.33	87	50
URD24S24 80W		24	3.33	88	50

\* For 3000V Isolation add Suffix "H3", 4000V Isolation "H4", 6000V Isolation "H6" (URDxxSxxHx xxW)



- \* Size is same for WRD and URD 60W, 80W, 100W, 120W and 150W
- \* PCB is Optional
- \* If you need other Voltage, Current or Isolation Please ask Power Outlet