



R series: Single-sided PCB

- Small and light
- Built-in inrush current, overcurrent and overvoltage protection circuits.
- UL recognized, TÜV approved, CSA certified
- Three-year warranty

■ ORDERING INFORMATION

R100-5-

Optional: Ex. with Cover: N
 Output voltage
 UL recognized, TÜV approved,
 CSA certified: U
 Output wattage
 Series name

SPECIFICATIONS

	MODEL	R100-3	R100-5	R100-9	R100-12	R100-15	R100-18	R100-24	
INPUT	VOLTAGE / CURRENT	AC85~132V 1ϕ or DC110~170V / 2.8A typ (ACIN100V, lo=100%)							
	FREQUENCY	47~440Hz or DC							
	EFFICIENCY	75%typ	79%typ	80%typ	82%typ	83%typ	84%typ	85%typ	
	INRUSH CURRENT	15A typ (ACIN 100V, lo=100%)							
	LEAKAGE CURRENT	0.5mA max (60Hz, by UL, CSA and Dentori)							
OUTPUT	VOLTAGE [V]	3	5	9	12	15	18	24	
	CURRENT [A]	20	20	11.5	8.5	7	5.6	4.5	
	LINE REGULATION [mV]	20 max	20 max	36 max	48 max	60 max	72 max	96 max	
	LOAD REGULATION [mV]	40 max	40 max	100 max	100 max	120 max	120 max	150 max	
	RIPPLE [mVp-p]	0~+50℃	80 max	80 max	120 max	120 max	120 max	120 max	120 max
		-10~0℃	140 max	140 max	160 max	160 max	160 max	160 max	160 max
	RIPPLE NOISE [mVp-p]	0~+50℃	120 max	120 max	150 max	150 max	150 max	150 max	150 max
		-10~0℃	160 max	160 max	180 max	180 max	180 max	180 max	180 max
	TEMPERATURE REGULATION [mV]	0~+50℃	50 max	50 max	90 max	120 max	150 max	180 max	240 max
	DRIFT [mV]※1	20 max	20 max	36 max	48 max	60 max	72 max	96 max	
	START-UP TIME [ms]	200max (ACIN 85V, lo =100 %)							
	HOLD-UP TIME [ms]	20typ (ACIN 100V, lo=100 %,0~+50℃) 10typ (ACIN 85V, lo =100 %,0~+50℃)							
OUTPUT VOLTAGE ADJUSTMENT RANGE [V]	2.85~3.6	4.5~5.5	8.1~9.9	10.8~13.2	13.5~16.5	16.2~19.8	21.6~26.4		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically							
	OVERVOLTAGE PROTECTION	4.00~5.25V	Works at 115%~140% of rating						
	OPERATING INDICATION	LED (Green)							
	REMOTE SENSING	Provided							
ISOLATION	INPUT-OUTPUT	AC2,000V, 1minute, Cutoff current= 10mA max, DC500V, 50MΩ min. (At Room Temperature)							
	INPUT-FG	AC2,000V, 1minute, Cutoff current= 10mA max, DC500V, 50MΩ min. (At Room Temperature)							
	OUTPUT-FG	AC 500V, 1minute, Cutoff current=100mA max, DC500V, 50MΩ min. (At Room Temperature)							
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-10~+60℃,20~90%RH (Non condensing) (Refer to DERATING CURVE) , 3,000m (10,000feet) max							
	STORAGE TEMP., HUMID. AND ALTITUDE	-20~+75℃,20~90%RH (Non condensing) , 9,000m (30,000feet) max							
	VIBRATION	10~55Hz, 19.6m/s² (2G) , 3 minutes period, 60 minutes each along X, Y and Z axis							
	IMPACT	196.1m/s² (20G) , 11ms, once each X, Y and Z axis							
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS	UL1950, C-UL, EN60950, VDE0160 Complies with DENTORI and IEC60950							
	CONDUCTED NOISE	Complies with FCC-B, VCCI-B							

※1 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

- ※ Avoid prolonged use under over-load.
 ※ Parallel operation with other model is not possible.
 ※ Derating is required when operated with case cover.