

LRS Series Power Supply

35W ~ 350W Low Profile



*drop-in replacements for... RS-35, RS-50, RS-75

LRS-100
RS-75*LRS-75
RS-50*LRS-35/50
RS-35*

* please see data sheet as untapped holes may be in different locations!

Features

- No load power consumption <0.2W for 35W/50W; <0.3W for 75W/100W
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Ultra compact and 1U low profile (30mm)**
- Withstand 5G vibration test
- High operating temperature up to 70°C
- Protection: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Compliance to IEC/EN60335-1(PD3) and IEC/EN61558-1,-2-16 for household appliances
- Operating altitude up to 5000 metres
- High efficiency, long life and high reliability
- LED indicator for power on
- DIN rail mounting hardware available
- 3 year warranty**



General Specifications

(refer to www.procontechnology.com.au for detailed specs)

Model No.	LRS-35	LRS-50	LRS-75	LRS-100
AC input voltage range	85~264VAC ; 120~370VDC			
AC inrush current (max)	Cold start, 45A at 230VAC		65A at 230VAC	50A at 230VAC
DC adjustment range	±10% by potentiometer (±15% for 12V, -10~+20% for 15V and 24V)			
Overload protection	Range	110~150%		
	Type	Hiccup mode, auto-recovery		
Over voltage protection	Range	115~135% rated output voltage		
	Type	Shut down o/p voltage, re-power on to recover		
Withstand voltage	I/P/O/P: 4kVAC, I/P-FG: 2kVAC, O/P-FG: 1.25kVAC, Over Voltage Category (OVC) III			
Working temperature	-30°C ~ +70°C (refer to output derating curve)			
Safety standards	UL62368-1, IEC/EN62368-1, IEC/EN1558-1, EN1558-2-16, IEC/EN60335-1, AS/NZS 60950.1 (by CB) approved + others			
EMC standards	EN55032 class B, EN55014, EN61000-3-2, 3, EN61000-4-2,3,4,5,6,8,11, GB9254, CNS13438			
Connection	5P/9.5mm pitch terminal block			7P/9.5mm pitch terminal block
Size (LxWxH), Weight	99x82x30mm, 0.23kg		99x97x30mm, 0.30kg	129x97x30mm, 0.34kg

35W

LRS-35

Model No.	Output	Tol.	R&N	Eff.
LRS-35-5	5V, 0~7A	±2%	80mV	82.0%
LRS-35-12	12V, 0~3A	±1%	120mV	86.0%
LRS-35-15	15V, 0~2.4A	±1%	120mV	86.0%
LRS-35-24	24V, 0~1.5A	±1%	150mV	88.0%
LRS-35-36	36V, 0~1A	±1%	200mV	88.0%
LRS-35-48	48V, 0~0.8A	±1%	200mV	89.0%

75W

LRS-75

Model No.	Output	Tol.	R&N	Eff.
LRS-75-5	5V, 0~14A	±2%	100mV	86.5%
LRS-75-12	12V, 0~6A	±1%	120mV	89.0%
LRS-75-15	15V, 0~5A	±1%	120mV	89.0%
LRS-75-24	24V, 0~3.2A	±1%	150mV	90.0%
LRS-75-36	36V, 0~2.1A	±1%	200mV	91.5%
LRS-75-48	48V, 0~1.6A	±1%	200mV	91.5%

50W

LRS-50

Model No.	Output	Tol.	R&N	Eff.
LRS-50-3.3	3.3V, 0~10A	±3%	80mV	80.0%
LRS-50-5	5V, 0~10A	±2%	80mV	83.0%
LRS-50-12	12V, 0~4.2A	±1%	120mV	86.0%
LRS-50-15	15V, 0~3.4A	±1%	120mV	88.0%
LRS-50-24	24V, 0~2.2A	±1%	150mV	88.0%
LRS-50-36	36V, 0~1.45A	±1%	200mV	89.0%
LRS-50-48	48V, 0~1.1A	±1%	200mV	90.0%

100W

LRS-100

Model No.	Output	Tol.	R&N	Eff.
LRS-100-3.3	3.3V, 0~20A	±3%	100mV	84.5%
LRS-100-5	5V, 0~18A	±2%	100mV	86.0%
LRS-100-12*	12V, 0~8.5A	±1%	120mV	88.0%
LRS-100-15	15V, 0~7A	±1%	120mV	88.5%
LRS-100-24*	24V, 0~4.5A	±1%	150mV	90.0%
LRS-100-36*	36V, 0~2.8A	±1%	200mV	90.5%
LRS-100-48*	48V, 0~2.3A	±1%	200mV	91.0%

* N2 version option with up to 200% peak power capability

LRS Series Power Supply



35W ~ 350W Low Profile

*drop-in replacement for... RS-100



LRS-350

LRS-200

see RSP for fully approved EU units!

LRS-150/LRS-150F

RS-100*

* please see data sheet as untapped holes may be in different locations!

■ Features

- No load power consumption <0.5W for 150W; <0.75W for 200W/350W
- AC input selectable by switch (LRS-150F Universal AC input/Full range)
- Withstand 300VAC surge input for 5 seconds
- Ultra compact and 1U low profile (30mm)
- Withstand 5G vibration test
- High operating temperature up to 70°C
- Protection: Short circuit / Overload / Over voltage / Over Temperature Protection (OTP)
- Cooling by free air convection (150W/200W); forced air cooling by built-in DC fan (350W)
- Compliance to IEC/EN60335-1(PD3) and IEC/EN61558-1, -2-16 for household appliances (150W)
- Operating altitude up to 5000 metres
- LED indicator for power on
- High efficiency, long life and high reliability
- 3 year warranty

■ General Specifications (refer to www.procontechnology.com.au for detailed specs)

Model No.	LRS-150F	LRS-150	LRS-200	LRS-350
AC input voltage range	85~264VAC; 120~370VDC	85~132VAC / 170~264VAC by switch; 240~370VDC (switch set to 230VAC)		
AC inrush current (max)	Cold start, 60A at 230VAC			
DC adjustment range	±10% by potentiometer (±15% for 12V, -10~+20% for 15V and 24V)			
Overload protection	Range	110~140%		
	Type	Hiccup mode, auto-recovery*		*3.3~36V. 48V Shut down o/p, re-power on to recover
Over voltage protection	Range	115~145% rated output voltage		
	Type	Shut down o/p voltage, re-power on to recover*		*48V. 3.3~36V Hiccup mode, auto-recovery
Withstand voltage	I/P-O/P:4kVAC, I/P-FG:2kVAC, O/P-FG:1.25kVAC, OVC III		I/P-O/P:3.75kVAC, I/P-FG:2kVAC, O/P-FG:0.5kVAC, OVC III	
Working temperature	-30°C ~ +70°C (refer to output derating curve)		-25°C ~ +70°C (refer to output derating curve)	
Safety standards	UL62368-1, IEC/EN62368-1, IEC/EN61558-1, EN61558-2-16, IEC/EN60335-1, AS/NZS62368.1 (by CB) approved + others		IEC/UL62368-1, BSMI CNS14336-1, EAC TP TC 004, AS/NZS62368.1 approved + others	
EMC standards	EN55032 class B, EN55014, EN61000-3-2(120W), 3, EN61000-4-2,3,4,5,6,8,11, GB/T 9254, EAC TP TC 020		BSMI CNS13438, EAC TP TC 020, Design refer to EN55032 class A	
Connection	7P/9.5mm pitch terminal block		9P/9.5mm pitch terminal block	
Size (LxWxH), Weight	159x97x30mm, 0.48kg		215x115x30mm, 0.66kg	215x115x30mm, 0.76kg

■ LRS-150 Series



Model No.	Output	Tol.	R&N	Eff.
LRS-150-12	12V, 0~12.5A	±1%	150mV	87.5%
LRS-150-15	15V, 0~10A	±1%	150mV	88.5%
LRS-150-24	24V, 0~6.5A	±1%	200mV	89.0%
LRS-150-36	36V, 0~4.3A	±1%	200mV	89.0%
LRS-150-48	48V, 0~3.3A	±1%	200mV	90.0%

■ LRS-200 Series



Model No.	Output	Tol.	R&N	Eff.
LRS-200-3.3	3.3V, 0~40A	±3%	150mV	83.0%
LRS-200-4.2	4.2V, 0~40A	±4%	150mV	86.0%
LRS-200-5	5V, 0~40A	±3%	150mV	87.0%
LRS-200-12*	12V, 0~17A	±1.5%	150mV	87.5%
LRS-200-15	15V, 0~14A	±1%	150mV	88.0%
LRS-200-24*	24V, 0~8.8A	±1%	150mV	89.5%
LRS-200-36*	36V, 0~5.9A	±1%	200mV	89.5%
LRS-200-48*	48V, 0~4.4A	±1%	200mV	90.0%

■ LRS-150F Series



Model No.	Output	Tol.	R&N	Eff.
LRS-150F-5	5V, 0~22A	±2%	100mV	85.0%
LRS-150F-12	12V, 0~12.5A	±1%	150mV	87.5%
LRS-150F-15	15V, 0~10A	±1%	150mV	89.0%
LRS-150F-24	24V, 0~6.5A	±1%	200mV	89.0%
LRS-150F-36	36V, 0~4.3A	±1%	200mV	89.0%
LRS-150F-48	48V, 0~3.3A	±1%	200mV	90.0%

■ LRS-350 Series



Model No.	Output	Tol.	R&N	Eff.
LRS-350-3.3	3.3V, 0~60A	±4%	150mV	79.5%
LRS-350-4.2	4.2V, 0~60A	±4%	150mV	81.5%
LRS-350-5	5V, 0~60A	±3%	150mV	83.5%
LRS-350-12*	12V, 0~29A	±1.5%	150mV	85.0%
LRS-350-15	15V, 0~23.2A	±1%	150mV	86.0%
LRS-350-24*	24V, 0~14.6A	±1%	150mV	88.0%
LRS-350-36*	36V, 0~9.7A	±1%	200mV	88.5%
LRS-350-48*	48V, 0~7.3A	±1%	200mV	89.0%

* N2 version option with up to 200% peak power capability