

# Features

- Universal AC input (85-264VAC)
- Long 7 year warranty
- Protections: SCP, OVP, OCP, OTP
- 100% full load burn-in test
- DC OK indicator LED with relay contacts
- cooling by free air convection, 5000m operation
- UL, CSA & CE certified with CB report

# DIN Rail Series



## REDIN60

# 60 Watt DIN-Rail Power Supply



### Description

This DIN-rail mounted power supply uses high reliability components to give a long, trouble-free life. The power supply can be end mounted to save space or side mounted for use in low-profile cabinets. Relay contacts simplify DC OK monitoring and the units can deliver 80W start-up power. The REDIN series is fully certified for industrial use and carries a 7-year warranty.

### Selection Guide

Part Number	Input Voltage Range [VAC]	Output Voltage [VDC]	Output Trimming Voltage [VDC]	Rated Current [A]	Efficiency typ. [%]	Max. Capacitive Load [μF]
REDIN60-12	85-264	12	12-15	5.0	85	18800
REDIN60-24	85-264	24	24-28	2.5	86	4700

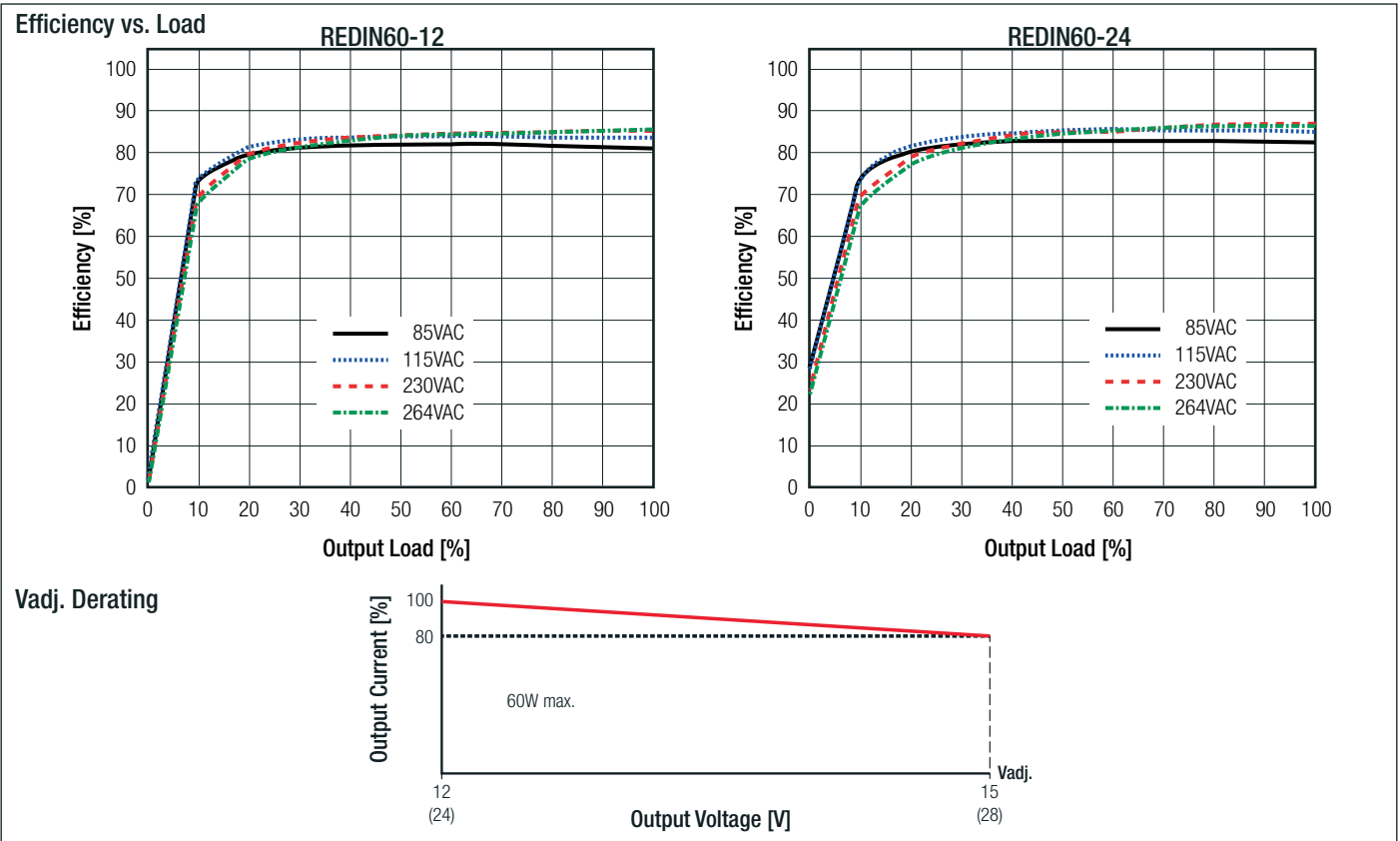
### Specifications (measured at Ta= 25°C, 230VAC, full load and after warm up)

BASIC CHARACTERISTICS				
Parameter	Condition	Min.	Typ.	Max.
Input Voltage Range	all operating conditions	85VAC		264VAC
max. Input Voltage	max. 1 second			300VAC 375VDC
Output Voltage Adjustment (Factory Setting) <sup>(1)</sup>	12Vout 24Vout		12-15VDC (12V±5%) 24-28VDC (24V±5%)	
Input Current	full load, 115VAC full load, 230VAC			1.8A 1.0A
absolute max. Input Current	cold start at 25°C, 115VAC cold start at 25°C, 230VAC			40A 60A
No Load Power Consumption	standard (with Relay) /NR option (no Relay)			<1000mW <500mW
Start Up time	cold start, 230VAC		500ms	1000ms
Rise time	cold start, 230VAC		20ms	
Hold-up time	full load, 115VAC full load, 230VAC		20ms 50ms	
Input Frequency Range		47Hz		63Hz
Operating Frequency Range			65kHz	
Efficiency			see Selection Guide	
Output Ripple and Noise <sup>(2)</sup>	12Vout 24Vout		60mVp-p 75mVp-p	
Over Load Capability	all operating conditions		140% for 5 seconds max.	
<b>Notes:</b>				
Note1: For more details refer to Vadj. Derating Graph on page PA-2				
Note2: Ripple and Noise are measured at 20MHz bandwidth by using a 12" twisted pair-wire terminated with 0.1μF & 47μF parallel capacitor				
continued on next page				



- CB-Report
- UL60950-1 certified
- IEC/EN60950-1 certified
- CSA C22.2 No. 60950-1-07 certified
- UL508 certified
- CAN/CSA-C22.2 No. 107.1-01 certified
- EN55024 certified
- EN55032 certified

Specifications (measured at Ta= 25°C, 230VAC, full load and after warm up)



### REGULATION

Parameter	Condition	Value
Line Regulation		±0.1 typ. / ±1% max.
Load Regulation		0.1 typ. / 1% max.
Transient Response <sup>(3)</sup>	12Vout (step load change: 2.5A - 5.0A) 24Vout (step load change: 1.25A - 2.5A)	±5% typ. ±5% typ.
Dwell Time		100Hz & 1kHz 50% duty
Slew Rate		0.5A / µs

#### Notes:

Note3: Transient Response + E-CAP loading 3300µF. Other specs with resistive load only

### PROTECTION

Parameter	Condition	Value
Input Fuse		T2.5A, slow blow type
Short Circuit Protection (SCP)		auto-recovery after fault condition, Hiccup Mode
Over Voltage Protection (OVP)	12Vout 24Vout	18VDC max., shut-down latch-off o/p voltage, re-power on to recover 35VDC max., shut-down latch-off o/p voltage, re-power on to recover
Over Voltage Category		OVCII
Over Current Protection (OCP)		150% typ., auto-recovery after fault condition
Over Temperature Protection (OTP)	detect on inside ambient	105°C±5%, shut-down latch-off o/p voltage, re-power on to recover
Isolation Voltage	tested for 1 minute	I/P to O/P: 3.75kVAC I/P to FG: 1.88kVAC O/P to FG: 0.5kVAC
Isolation Resistance	500VDC, 70% RH, I/P to O/P; I/P to FG; O/P to FG	100MΩ min.
Leakage Current	240VAC	>1mA
Power OK LED	Relay Contacts LED/Relay	1A, 30VDC / 120VAC ON if Vout = 11-16V (12V) / 22-30V (24V)