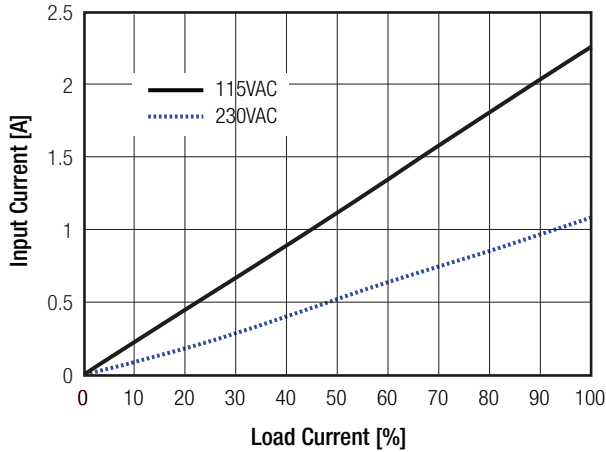


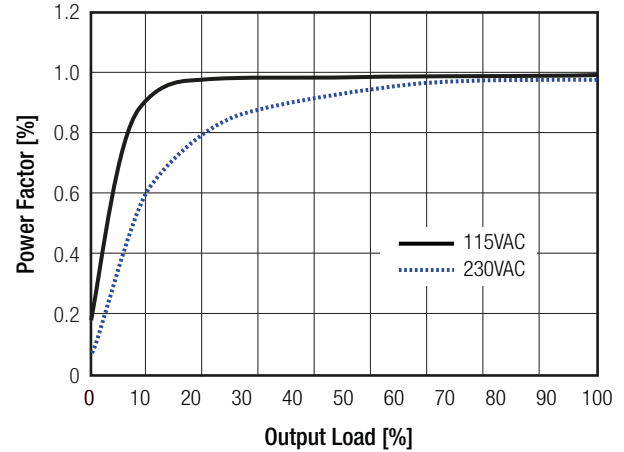
Specifications (measured @ Ta = 25°C, rated Vin, rated load and after warm up)

REDIN240-48

Input Current vs Load



Power Factor vs Load over Vin



**REGULATION**

Parameter	Condition	Value
Output Accuracy	24Vout	±0.4% typ. / ±3% max.
	48Vout	±0.3% typ. / ±3% max.
Line Regulation	24Vout	±0.03% typ. / ±0.5% max.
	48Vout	±0.04% typ. / ±0.5% max.
Load Regulation	0% to 100% load	0.3% typ. / 1.0% max.
Transient Response	100Hz & 1kHz, 50% duty, 25% load step change	±1% typ. / ±5% max.

**PROTECTION**

Parameter	Condition	Value
Input Fuse <sup>(2)</sup>		T5A, slow blow type
Short Circuit Protection (SCP)		continuous, auto recovery
Over Voltage Protection (OVP)	24Vout	29-33VDC, constant voltage auto recovery
	48Vout	58-63VDC, constant voltage auto recovery
Over Voltage Category (OVC)		OVC II
Over Load Protection (OLP)		Limit the current by constant power circuit
Over Temperature Protection (OTP)		105±5°C, detect on Heat-sink of power transistor; shut down O/P, auto recovery after temperature goes down
Isolation Voltage	I/P to O/P	3.0kVAC/1 minute
	I/P to PE	2.5kVAC/1 minute
	O/P to PE	0.5kVAC/1 minute
Isolation Resistance		10MΩ min.
Leakage Current	I/P to O/P	0.25mA max.
	I/P to PE	3.5mA max.
Power OK LED	ON	Vout up to 90% of rated Vout
	OFF	Vout down to 80% of rated Vout
Relay Contact Rating		Max. 30V/1A or 60V/0.3 or 30VAC/0.3A Resistive Load

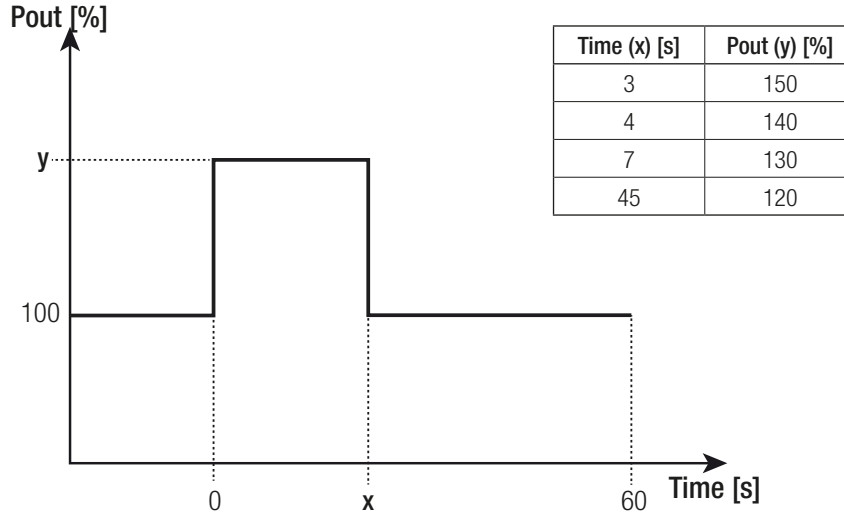
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Specifications (measured @ Ta = 25°C, rated Vin, rated load and after warm up)

**Notes:**

Note2: Refer to local wiring regulations if input over-current protection is also required

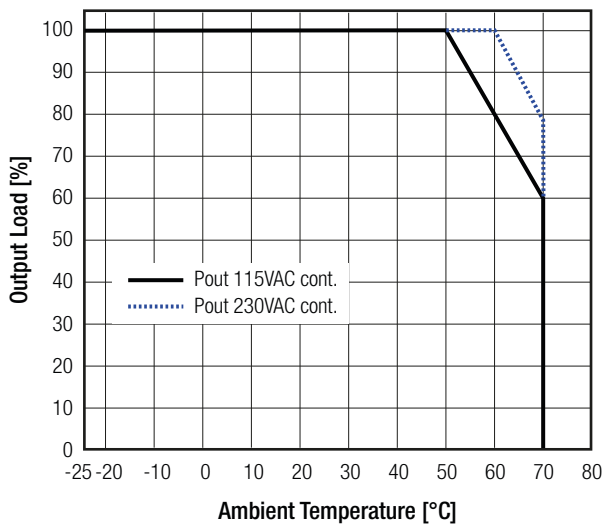
**Overload Capability**



**ENVIRONMENTAL**

Parameter	Condition	Value
Operating Temperature Range	@ natural convection 0.1m/s	full load -25°C to +50°C
		refer to derating graph -25°C to +70°C
Temperature Coefficient		0.3%/K
Operating Altitude		3000m
Operating Humidity	non-condensing	20% - 90% RH
IP Rating		IP X0
Pollution Degree (PD)		PD 2
Shock		10-500Hz 2G, 60min.
Vibration		10G /11 ms, along x,y and z axis
MTBF	according to MIL-HDBK-217F, 25°C	300 x 10 <sup>3</sup> hours

**Thermal Dertating**



**Operating Altitude**

