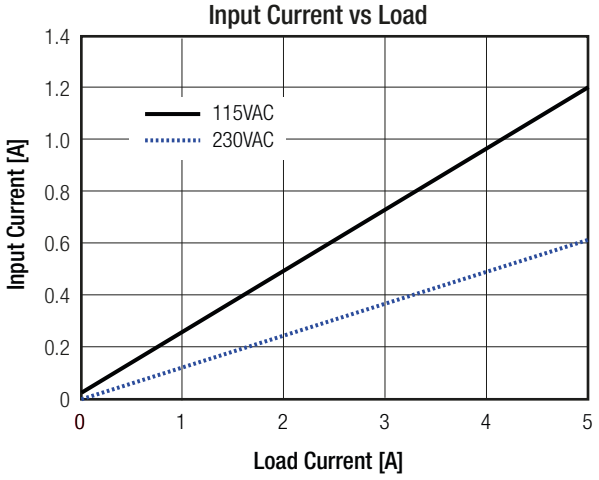
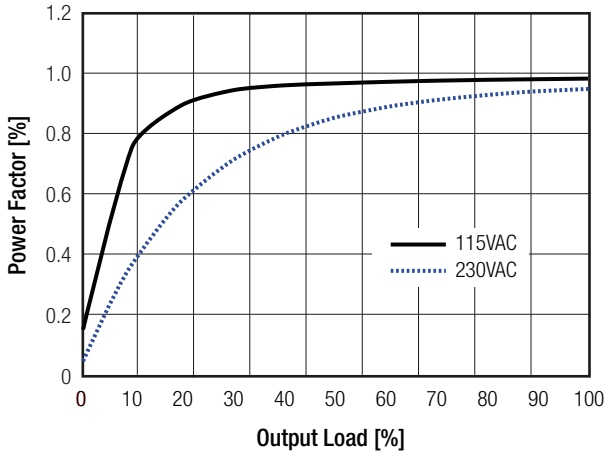
Specifications (measured @ T_a= 25°C, rated Vin, rated load and after warm up)

REDIN120-24

Input Current vs Load

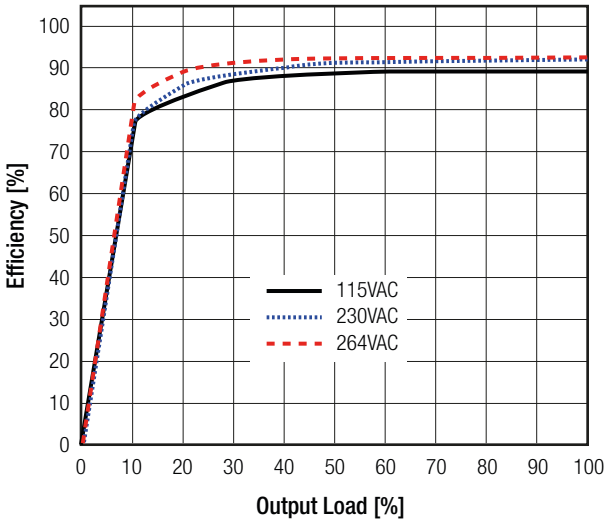


Power Factor vs Load over Vin

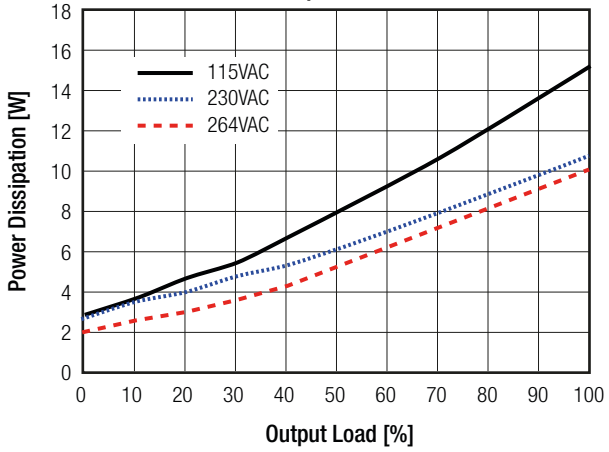


REDIN120-48

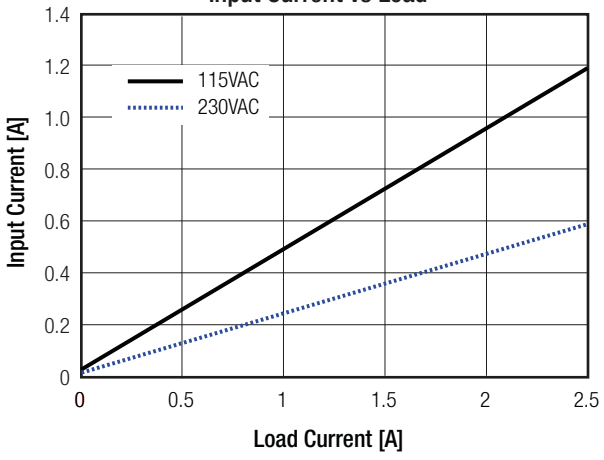
Efficiency vs. Load



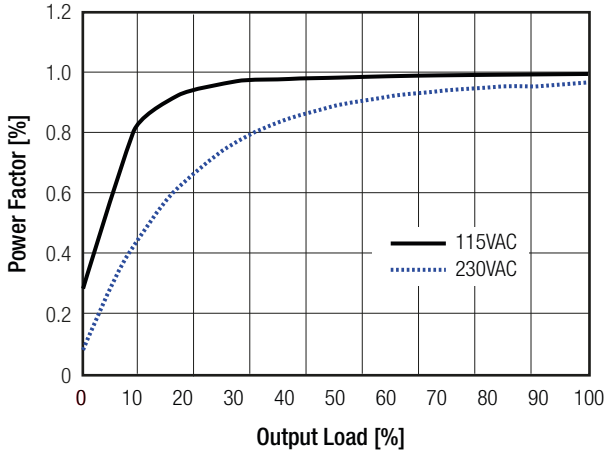
Power Dissipation vs Load



Input Current vs Load



Power Factor vs Load over Vin



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

REGULATION

Parameter	Condition	Value
Output Accuracy		±0.25% typ. / ±1% max.
Line Regulation		±0.1% typ. / ±0.5% max.
Load Regulation	0% to 100% load	0.25% typ. / 1.0% max.
Transient Response	100Hz & 1kHz, 50% duty	±1% typ. / ± 5% max.

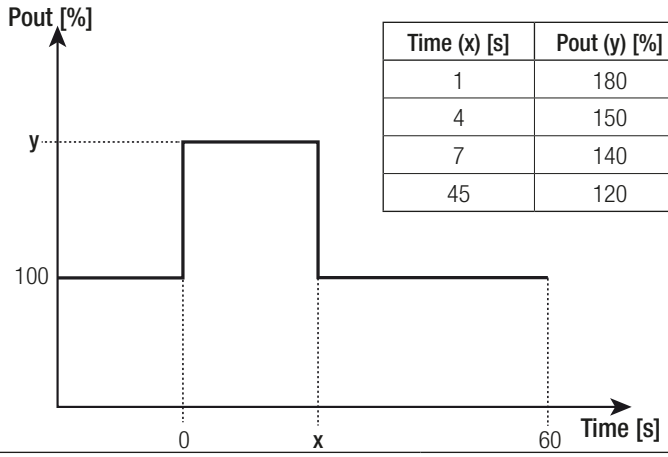
PROTECTION

Parameter	Condition	Value
Input Fuse [2]	internal	T5A, slow blow type
Short Circuit Protection (SCP)		hiccup mode (current limit)
Over Voltage Protection (OVP)	12Vout 24Vout 48Vout	15-18VDC, hiccup mode 29-33VDC, hiccup mode 58-65VDC, hiccup mode
Over Voltage Category (OVC)		OVC II
Over Load Protection (OLP)		Constant power (current limit)
Over Temperature Protection (OTP)		100±5°C, detect on Heat-sink of power transistor; shut down O/P, auto recovery after temperature goes down
Power OK LED	ON (green) OFF (red) Relay Contact Rating	Vout up to 90% of rated Vout Vout down to 80% of rated Vout Max. 30V/1A or 60V/0.3 or 30VAC/0.3A Resitive Load
Isolation Voltage	I/P to O/P I/P to PE O/P to PE	3.0kVAC / 1minute 2.5kVAC / 1minute 0.5kVAC / 1minute
Isolation Resistance		10MΩ min.
Leakage Current	I/P to O/P I/P to PE, 240VAC 50Hz	0.1mA typ. / 0.25mA max. 1.0mA max.

Notes:

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

Overload Capability



Time (x) [s]	Pout (y) [%]
1	180
4	150
7	140
45	120

Maximum loading of automatic circuit breakers

Circuit Breaker	Circuit Breaker Current		
Typ	Single Use	Parallel Use (2 devices)	Parallel Use (3 devices)
B	6A	6A	13A
C	10A	10A	16A
Note: Values could change depending on local mains			

ENVIRONMENTAL

Parameter	Condition		Value
Operating Temperature Range [3]	@ natural convection 0.1m/s	full load	-25°C to +55°C
		refer to derating graph	-25°C to +70°C
Temperature Coefficient			0.03%/K
Operating Altitude [4]			3000m
Operating Humidity	non-condensing		20% - 90% RH

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