Output Specifications

Start up time (nominal Vin and constant resistive load)		25 ms typ. (at power On or remote On)
Transient response (25% load step change)		200 µs typ.
Output current limitation		at 110 -140 % of Iout max.
Over voltage protection		at 115 -130 % of Vout nom.
Short circuit protection		indefinite, automatic recovery
Capacitive load	3.3 & 5 VDC models:	40'000 µF max.
	12 VDC models:	7'000 µF max.
	15 VDC models:	4'460 µF max.
	24 VDC models:	1'750 µF max.
	28 VDC models:	1'280 µF max.
	48 VDC models:	430 µF max.

General Specifications

Temperature ranges	– Operating		–40°C to +75°C
	– Case temperature		+105°C max.
	– Storage		–55°C to +125°C
Thermal impedance	– without Heatsink		6.7°C/W
	– with Heatsink		4.7°C/W
Derating			See derating graphs page 4
Over temperature protection			at 115°C
Thermal shock			acc. MIL-STD-810F
Humidity (non condensing)			95 % rel H max.
Reliability, calculated MTBF (MIL-HDBK-217F, at +70°C, ground benign)			331'000 h
Isolation voltage (60sec.)	– Input/Output		2'250 VDC (basic insulation)
	– Input/Case		1'600 VDC
Isolation capacitance	– Input/Output		2500 pF max.
Isolation resistance	– Input/Output (500 VDC)		>1 GOhm min.
Switching frequency			300 kHz typ. (puls width modulation)
Safety approvals			UL 60950-1 , IEC/EN 60950-1
	– Certification documents		www.tracopower.com/overview/tep100
Remote On/Off	– positive logic (standard)	– On:	3 to 12 VDC or open circuit
		– Off:	0 to 1.2 VDC or short circuit pin 1 and 3
	– negative logic (option -N)	– On:	0 to 1.2 VDC or short circuit pin 1 and 3
		– Off:	3 to 12 VDC or open circuit
	– Off idle current:		3 mA
Environmental compliance	– Reach		www.tracopower.com/products/reach-declaration.pdf
	– RoHS		RoHS directive 2011/65/EU

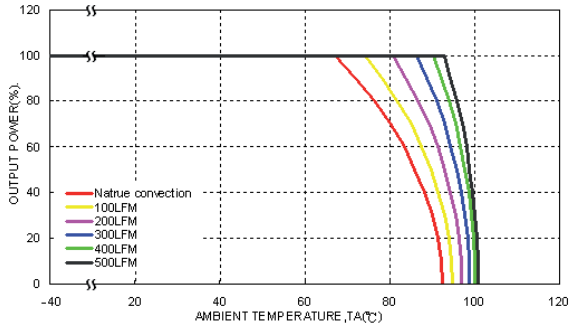
Application note: www.tracopower.com/overview/tep100

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

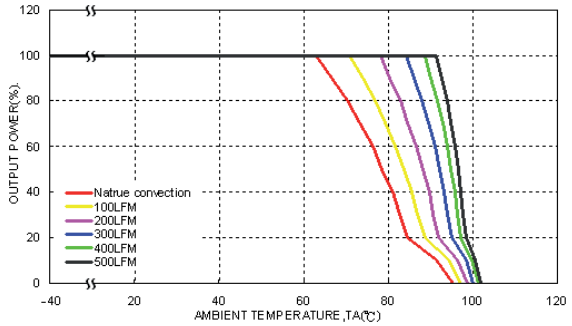
Output Power Derating

Models with heatsink

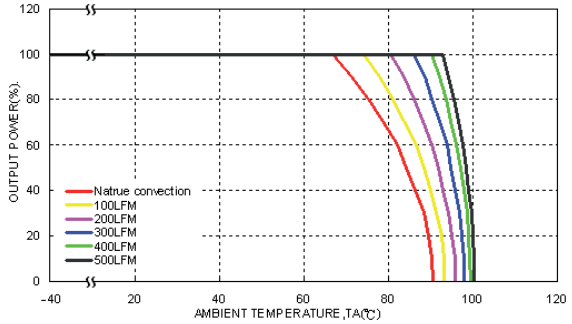
24 Vin models: Output 3.3–15 VDC



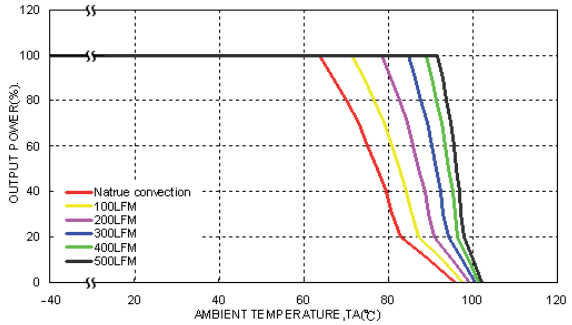
24 Vin models: Output 24–48 VDC



48 Vin models: Output 3.3–15 VDC

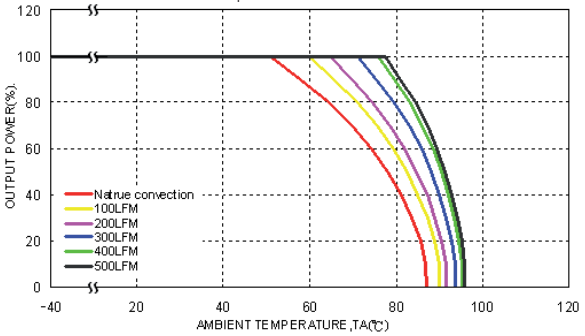


48 Vin models: Output 24–48 VDC

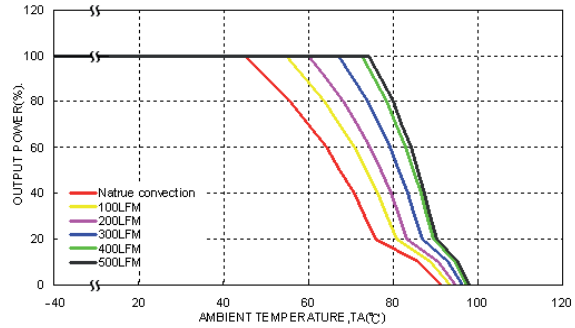


Models without heatsink

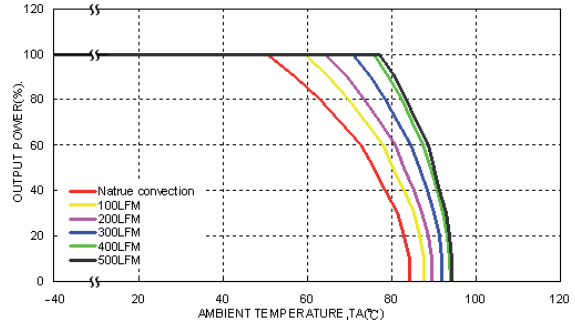
24 Vin models: Output 3.3–15 VDC



24 Vin models: Output 24–48 VDC



48 Vin models: Output 3.3–15 VDC



48 Vin models: Output 24–48 VDC