

TOTAL POWER INT.

TPS120 SWITCHING MODE 120W OPEN FRAME POWER SUPPLY



KEY FEATURES

- *Universal input
- *Built-in EMI filter
- *Optional remote sense on main output
- *Optional constant current charger
- *Optional $\pm 12\text{VDC}/\pm 24\text{VDC}/\pm 48\text{VDC}$ input
- *Optional cover
- *Optional constant current change (for single output)

APPLICATIONS

- *Telecommunications/Business machines
- *Computer peripherals/Medical instruments
- *Test & industrial equipments

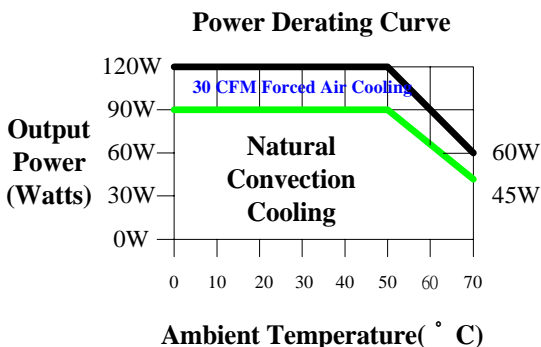
ELECTRICAL SPECIFICATIONS

INPUT

- *Input range-----90~264 VAC, universal
- *Frequency-----47~63Hz
- *Inrush current-----38A typical, Cold start @25°C, 115VAC
- *Efficiency-----65% ~85% typical at full load
- *EMI filter-----FCC Class B conducted, CISPR 22 Class B conducted, EN55022 class B Conducted
- *Line regulation----- +/- 0.5% typical

OUTPUT

- *Maximum power----120W with 30 CFM forced air
- *Hold-up time -----10ms typical at full load and 115 VAC nominal line
- *Overload protection-Short circuit protection
- *Overvoltage protection -----Main output 20% to 40% above nominal output
- *Ripple/Noise ----- +/- 1% Max. @full load (Optional +/-0.5 % per inquiry)



EMI & EMC

- *FCC part 15, Class B
- *CISPR 22 / EN55022, Class B
- *VCCI, Class 2
- *CE, EN61000-3-2 (Class A) and -3 ; EN61000-4-2, -3, -4, -5, -6 and -11

SAFETY APPROVAL

- *UL1950 / c UL
- *Optional CSA 22.2, LEVEL 3 (COMPLY WITH)
- *TUV EN60950
- *Optional UL 2601 (EMI Class A)(COMPLY WITH)

ENVIRONMENTAL

- *Operating temperature : 0 to 50°C ambient; derate each output at 2.5% per degree from 50°C to 70°C
- *Humidity: Operating; non-condensing, 5% to 95%
- *Vibration : 10~55 Hz at 1G 3 minutes period, 30 minutes along X, Y and Z axis
- *Storage temperature: -40 to 85°C
- *Temperature coefficient: +/- 0.05% per degree C
- *MTBF demonstrated: >100,000 hours at full load and 25°C ambient conditions

MODEL	OUTPUT VOLTAGE	ADJUSTMENT RANGE	MAXIMUM OUTPUT CURRENT	PEAK OUTPUT CURRENT(NOTE1)	MINIMUM OUTPUT CURRENT	TOTAL REGULATION(NOTE3)	RIPPLE & NOISE %P-P(NOTE2)	PEAK OUTPUT POWER(NOTE1)
TPS120-10	+5V	±10% Typical	24A	30A	0A	±3%	±1%	150W Typical
TPS120-11	+12V	±10% Typical	10A	12.5A	0A	±3%	±1%	150W Typical
TPS120-12	+15V	±10% Typical	8A	10A	0A	±3%	±1%	150W Typical
TPS120-13	+24V	±10% Typical	5A	6.3A	0A	±3%	±1%	150W Typical
TPS120-14	+48V	±10% Typical	2.5A	3.1A	0A	±3%	±1%	150W Typical
TPS120-15	+13.5V	±10% Typical	8.9A	11.1A	0A	±3%	±1%	150W Typical
TPS120-16	+56V	±10% Typical	2.2A	2.8A	0A	±3%	±1%	150W Typical
TPS120-17	+18V	±10% Typical	6.7A	8.4A	0A	±3%	±1%	150W Typical
TPS120-18	+3.3V	±10% Typical	30A	37.5A	0A	±5%	±1.5%	150W Typical

DUAL OUTPUT MODEL SELECTION CHART

TPS120-20	+5 V	±10% Typical	12A	15A	1.2A	±5%	±1%	150W Typical
	+12V	Fixed	5A	6.2A	0.5A	±5%	±1%	
TPS120-21	+5 V	±10% Typical	12A	15A	1.2A	±5%	±1%	150W Typical
	+24V	Fixed	2.5A	3.1A	0.25A	±5%	±1%	
TPS120-22	+5 V	±10% Typical	12A	15A	1.2A	±5%	±1%	150W Typical
	- 5 V	Fixed	12A	15A	1.2A	±5%	±1%	
TPS120-23	+12V	±10% Typical	5A	6.3A	0.5A	±5%	±1%	150W Typical
	- 12 V	Fixed	5A	6.3A	0.5A	±5%	±1%	
TPS120-24	+15 V	±10% Typical	4A	5A	0.4A	±5%	±1%	150W Typical
	- 15 V	Fixed	4A	5A	0.4A	±5%	±1%	
TPS120-25	+3.3V	Fixed	20A	25A	2A	±5%	±1.5%	150W Typical
	+12 V	±10% Typical	1A	1.3A	0.1A	±5%	±1%	
TPS120-26	+ 5 V	±10% Typical	4A	5A	0.4A	±5%	±1%	150W Typical
	+48V	Fixed	2A	2.5A	0.2A	±5%	±1%	

TRIPLE OUTPUT MODEL SELECTION CHART

TPS120-30	+ 5V	±10% Typical	12A	15A	1.2A	±5%	±1%	150W Typical
	+12V	Fixed	4.5A	5.6A	0.45A	±5%	±1%	
	- 5 V	Fixed	0.6A	0.8A	0.06A	±10%	±1%	
TPS120-31	+ 5V	±10% Typical	12A	15A	1.2A	±5%	±1%	150W Typical
	+12V	Fixed	4.5A	5.6A	0.45A	±5%	±1%	
	-12V	Fixed	0.6A	0.8A	0.06A	±10%	±1%	
TPS120-32	+ 5V	±10% Typical	12A	15A	1.2A	±5%	±1%	150W Typical
	+15V	Fixed	3.5A	4.4A	0.35A	±5%	±1%	
	-15V	Fixed	0.6A	0.8A	0.06A	±10%	±1%	
TPS120-33	+ 5V	±10% Typical	15A	18.8A	1.5A	±5%	±1%	150W Typical
	+15V	Fixed	3A	3.8A	0.3A	±5%	±1%	
	- 5 V	Fixed	0.5A	0.6A	0.05A	±10%	±1%	
TPS120-34	+ 5V	±10% Typical	14A	17.5A	1.4A	±5%	±1%	150W Typical
	+15V	Fixed	3A	3.8A	0.3A	±5%	±1%	
	-12V	Fixed	0.6A	0.8A	0.06A	±10%	±1%	
TPS120-35	+ 5 V	±10% Typical	11A	13.8A	1.1A	±5%	±1%	150W Typical
	+24V	Fixed	2.5A	3.1A	0.25A	±5%	±1%	
	-12V	Fixed	0.6A	0.8A	0.06A	±10%	±1%	
TPS120-36	+ 5V	±10% Typical	11A	13.8A	1.1A	±5%	±1%	150W Typical
	+12V	Fixed	5A	6.3A	0.5A	±5%	±1%	
	- 12V	Fixed	1A	1.3A	0.1A	±10%	±1%	
TPS120-37	+ 5V	±10% Typical	11A	13.8A	1.1A	±5%	±1%	150W Typical
	+12V	Fixed	3.5A	4.4A	0.35A	±5%	±1%	
	+24V	Fixed	1A	1.3A	0.1A	±10%	±1%	
TPS120-38	+ 5V	±10% Typical	8A	10A	0.8A	±5%	±1%	150W Typical
	+12V	Fixed	3A	3.8A	0.3A	±5%	±1%	
	+48V	Fixed	1A	1.3A	0.1A	±10%	±1%	

