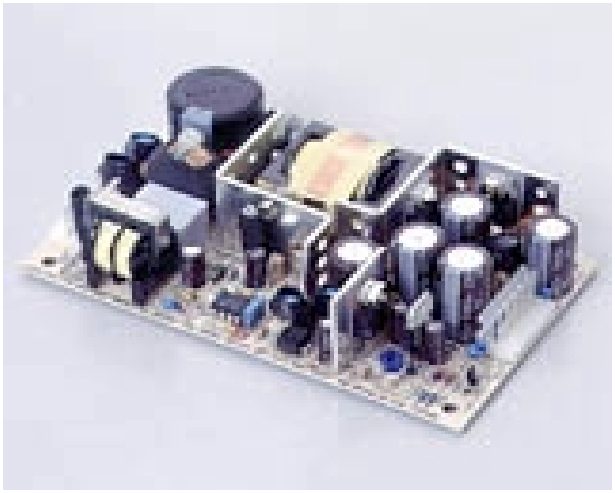
TOTAL POWER INT'L

TPG65 Open Frame P/S



KEY FEATURES

**Universal input*
**Built-in EMI filter*
**Optional±12VDC/±24VDC/±48VDC input*

APPLICATIONS

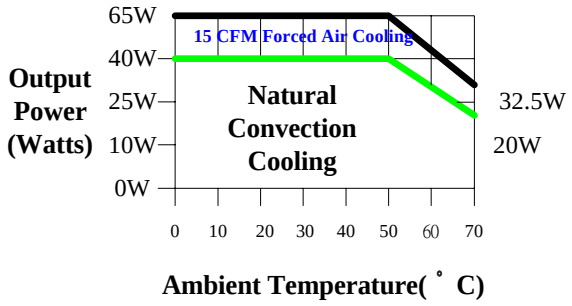
**Telecommunications*
**Computer peripherals/Lan & Hub*
**Test & industrial equipments*
**Medical instruments*
**Business machines*

ELECTRICAL SPECIFICATIONS

INPUT
*Input range----------90~264 VAC, universal
*Frequency----------47~63Hz
*Inrush current--------30A typical ,Cold start @25℃,115VAC
*Efficiency----------65%~80% 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----65W with 15 CFM forced air (Refer next page)
*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)

Power Derating Curve



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℃ ambient; derate each output at 2.5% per degree from 50℃ to 70℃
*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℃
*Temperature coefficient:
+/- 0.05% per degree C
*MTBF demonstrated:
>100,000 hours at full load and 25℃ ambient conditions

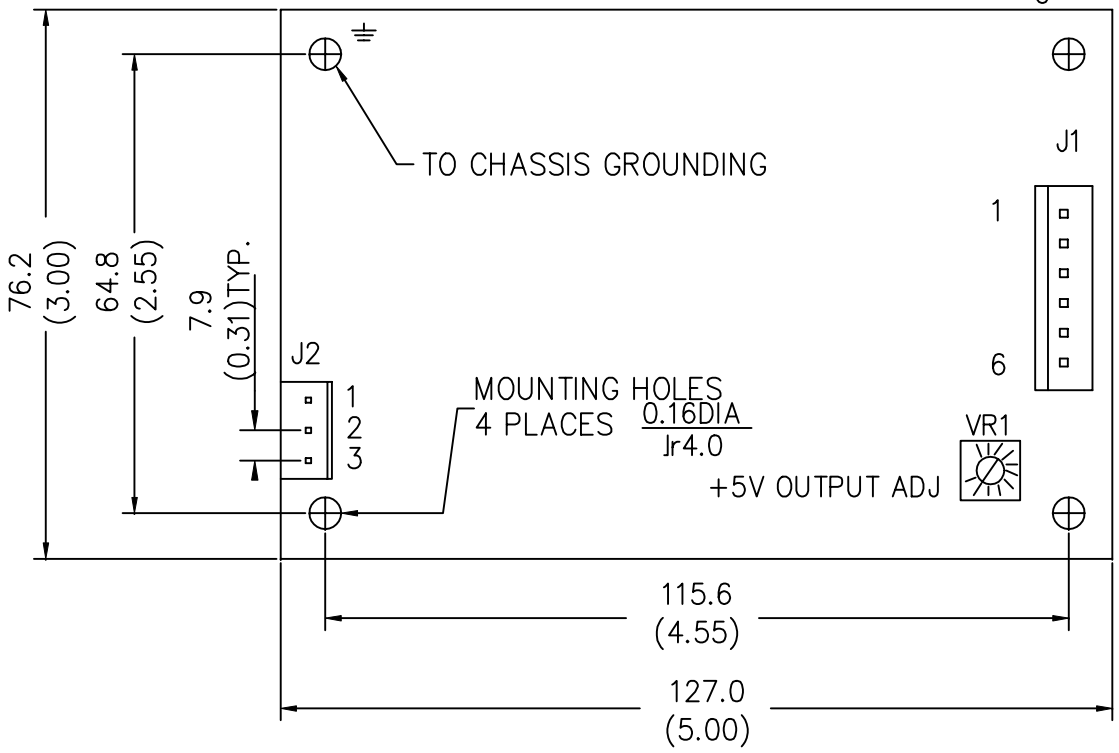
TOTAL POWER, INT. TEL:877-646-0900 FAX:978-453-7395
E-mail: sales@total-power.com http://www.total-power.com

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)
SINGLE OUTPUT MODEL SELECTION CHART								
TPG65-15	+3.3V	±10% Typical	20A	23A	2A	±5%	±1.5%	75W Typical
TPG65-10	+ 5V	±10% Typical	13A	15A	0A	±3%	±1%	75W Typical
TPG65-11	+12V	±10% Typical	5.4A	6.2A	0A	±3%	±1%	75W Typical
TPG65-12	+15V	±10% Typical	4.3A	4.9A	0A	±3%	±1%	75W Typical
TPG65-13	+24V	±10% Typical	2.7A	3.1A	0A	±3%	±1%	75W Typical
TPG65-S5	+48V	±10% Typical	1.3A	1.5A	0A	±3%	±1%	75W Typical
TPG65-16	+10V	±10% Typical	6.5A	7.4A	0A	±3%	±1%	75W Typical
TPG65-18	+20V	±10% Typical	3.25A	3.7A	0A	±3%	±1%	75W Typical
TPG65-19	+36V	±10% Typical	1.8A	2A	0A	±3%	±1%	75W Typical
DUAL OUTPUT MODEL SELECTION CHART								
TPG65-20	+3.3V	±10% Typical	9.7A	11.1A	0.97A	±5%	±1.5%	75W Typical
	+ 5V	Fixed	6.5A	7.4A	0.65A	±5%	±1%	
TPG65-21	+ 5V	±10% Typical	12A	13.8A	1.2A	±5%	±1%	75W Typical
	+12V	Fixed	1A	1.2A	0.1A	±5%	±1%	
TPG65-22	+5 V	±10% Typical	6A	6.9A	0.6A	±5%	±1%	75W Typical
	+12V	Fixed	3A	3.5A	0.3A	±5%	±1%	
TPG65-23	+5 V	±10% Typical	6A	6.9A	0.6A	±5%	±1%	75W Typical
	+24V	Fixed	1.5A	1.7A	0.15A	±5%	±1%	
TPG65-24	+12V	±10% Typical	3A	3.5A	0.3A	±5%	±1%	75W Typical
	-12V	Fixed	3A	3.5A	0.3A	±10%	±1%	
TPG65-25	+3.3V	±10% Typical	10A	11.5A	1A	±5%	±1.5%	75W Typical
	+12V	Fixed	1A	1.2A	0.1A	±5%	±1%	
TPG65-26	+3.3V	±10% Typical	15A	17.3A	1.5A	±5%	±1.5%	75W Typical
	-48V	Fixed	0.4A	0.5A	0.04A	±10%	±1%	
TPG65-27	+5V	±10% Typical	8A	9.2A	0.8A	±5%	±1%	75W Typical
	-5V	Fixed	2A	2.3A	0.2A	±10%	±1%	
TRIPLE OUTPUT MODEL SELECTION CHART								
TPG65-31	+ 5V	±10% Typical	6A	6.9A	0.6A	±5%	±1%	75W Typical
	+12V	Fixed	2.2A	2.5A	0.22A	±5%	±1%	
	- 12V	Fixed	0.35A	0.4A	0.04A	±10%	±1%	
TPG65-32	+ 5V	±10% Typical	6A	6.9A	0.6A	±5%	±1%	75W Typical
	+15V	Fixed	2.2A	2.5A	0.22A	±5%	±1%	
	-15V	Fixed	0.35A	0.4A	0.04A	±10%	±1%	
TPG65-T3Y	+ 5V	±10% Typical	5A	6.9A	0.5A	±5%	±1%	75W Typical
	-5V	Fixed	0.8A	1.4A	0.08A	±5%	±1%	
	-+12V	Fixed	3.5A	1.4A	0.35A	±10%	±1%	
TPG65-31B	+ 5V	±10% Typical	6A	6.9A	0.6A	±5%	±1%	75W Typical
	+24V	Fixed	1A	2.3A	0.1A	±5%	±1%	
	-12V	Fixed	1A	1.2A	0.1A	±10%	±1%	
TPG65-36	+3.3V	±10% Typical	10A	11.5A	1A	±5%	±1.5%	75W Typical
	+5V	Fixed	2A	2.3A	0.2A	±5%	±1%	
	+12V	Fixed	1.25A	1.4A	0.13A	±10%	±1%	
TPG65-38	+5V	±10% Typical	1A	6.9A	0.1A	±5%	±1%	75W Typical
	+15V	Fixed	1.6A	2.5A	0.16A	±5%	±1%	
	+48V	Fixed	0.75A	1.4A	0.08A	±10%	±1%	
TPG65-39	+3.3V	±10% Typical	13.5A	15.5A	1.35A	±5%	±1.5%	75W Typical
	+12V	Fixed	1.5A	1.7A	0.15A	±5%	±1%	
	+5V	Fixed	1A	1.2A	0.1A	±10%	±1%	

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)

NOTES: 1) Peak loads for lasting <30 seconds with a maximum 10% duty cycle are acceptable. Please contact us if need special peak load.
2) Maximum peak to peak noise expressed as a percentage of output voltage, 20MHz bandwidth, input not less nominal line, 0.1 μF and 47 μF Cap. on outputs.
3) Loading test conditions are set for all outputs at minimum, middle and maximum of loads. Special cross loading requirement is welcomed.
4) Detailed engineering specification of each model is available for inquiry.
5) Special output voltage/current inquiry is welcomed.
6) Specifications subject to change without notice.
7) 25% derated if 24 VDC input version; 50% derated if 12 VDC input version.

MAXIMUM COMPONENT HEIGHT= $\frac{25.4\ ^{+2.54}_{-0}}{1.00\ ^{+.10}_{-0}}$



J1=CONNECTOR,MOLEX#09-65-2068(OR EQUIVALENT)
(MATING CONECT.=MOLEX#09-50-3061)
J2=CONNECTOR,MOLEX#09-65-2058(OR EQUIVALENT)
(MATING CONECT.=MOLEX#09-50-3051)
ALL MATING TERMINAL=MOLEX#08-50-0106(OR EQUIVALENT)

TOLERANCE : $\frac{mm\pm0.5}{(inch)\pm0.02}$

UNIT: $\frac{mm}{(inch)}$

J1 (CONNECTORS) CONFIGURATION

Single Output	1	2	3	4	5	6
	V1			RET		

J2 (CONNECTORS) CONFIGURATION

1	2	3
GRD	NEUT(−)	LINE(+)

J1 (CONNECTORS) CONFIGURATION

Multiple Output	1	2	3	4	5	6
	V2	V1		RET		V3