



965 W

DC INPUT,
PARALLELABLE, HOT-SWAPPABLE,
FIVE-OUTPUT
POWER SUPPLY



PS2246 POWER SUPPLY FEATURES

INPUT POWER:	40-60VDC, 35A Max
INPUT CONNECTOR:	3 position, 50A, single row terminal block with 10-32 studs and 1 1/32" extended hex nuts. Lexan protective cover included
INPUT PROTECTION:	40A, single pole, single throw magnetic circuit breaker
INRUSH CURRENT:	< 400A peak @ 60 VDC
OUTPUT CONNECTOR:	DIN M-type connector with 40 A rated high power inserts and 24 signal pins
OUTPUT POWER:	965W Max (+5V @ 160A, +3.3V @ 8A, +12V @ 3A, -12V @ 6A, & -5V @ 6A) with current sharing on +5V
NOMINAL SIZE:	10.800"L x 5.580"H x 5.980"W
WEIGHT:	10.5 Lb
OPERATING AMBIENT:	0-50 degrees Celsius
COOLING:	System provided
SIGNALS:	Power supply present signal, power supply fail signal
CONSTRUCTION:	Fully enclosed steel chassis
CONTROLS:	Factory preset +5V adjustment pot, remote ON/OFF switch
PROTECTIONS:	Input reverse polarity protection. Primary power limiting. Overtemperature protection, resetting with hysteresis. Self-restarting type overcurrent and over-voltage protection on all outputs. Output oring diodes on all outputs.
POWER CIRCUITS:	125 kHz single-switch forward isolating down converters with magnetic amplifiers.



19.TYPICAL PERFORMANCE SUMMARY

OUTPUT	+5V	+3.3V	+12V	-12V	-5V
LINE/ LOAD/CROSS REGULATION	4.5%	5.0%	1.9%	8.0%	6.3%
DIFF. MODE NOISE	55mVp-p	39mVp-p	33mVp-p	56mVp-p	35mVp-p
OVP	6.6V	4.3V	15.3V	-15.1V	-6.7V
OCP	203A	9.9A	3.6A	7.4A	7.4A
TRANSIENT RESPONSE	240mVp	475mVp	80mVp	1000mVp	300mVp
(50 % LOAD STEP)	480μs	560μs	0μs	5.6ms	580μs
GAIN MARGIN	13 dB	> 20 dB	> 14 dB	-	> 20 dB
PHASE MARGIN	88°	57°	103°	-	73°
CROSSOVER FREQUENCY	6.4 kHz	3.2 kHz	3.8 kHz	-	5.0 kHz
LINE CONDUCTED EMI	GR1089 with > 30 dB margin				
INRUSH CURRENT @ 60 Vdc	364 Apk				
START UP TIME @ 40 Vdc	684 Apk				
HOLD UP TIME @ 48Vdc	520μs				
EFFICIENCY @ 48Vdc, 965W	74%				

Mechanical Outline

