



Modular Systems / Series 5 Up to 400 Watts

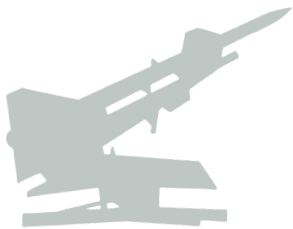
The Power Professionals

*Power
Conversion
Products*



Features

- AC and DC inputs
- Single and multiple outputs
- COTS modular construction
- Input and output filtering
- Modified standards upon request



All specifications are typical at 25°C with nominal input voltage under full output load conditions, unless otherwise noted. Specifications subject to change without notice.

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Prime Power's

modular systems are complete turn-key systems. No external circuitry is required for proper operation. These systems are mainly comprised of Prime Power's "Power Blocks" series modular products, but are also designed to accept a wide variety of modular products made by other manufacturers. The flexibility of these designs allow for a large number of output and power combinations. The attached pages list a few of the standards. Non-standards are reviewed upon request. Due to the systems modular construction, these products are ideally suited for ruggedized commercial or industrial applications as well as military grade applications.



Technical Data

Input Characteristics

Voltage: 90-260 VAC PFC
90-132/180-264 VAC
Auto-ranging
Frequency: 47-440 Hz
Transient: Trip circuit @ 275 VAC
Filtering: Mil-Std 461
FCC filtering

Protection

Short circuit: Continuous
Over-current: Power or current foldback
Over-voltage: 120% of rated V_o (typical)
Over-temp.: 105°C (typical) auto-recovery.

Output Characteristics (Typical)

Line Regulation: .5% (min to max line range)
Load Regulation: .5% (from 10% to 100% load)
Ripple: 1% typical

Environmental

Temperature: -40 to 90°C case
Vibration: Mil-Std-810
Shock: Mil-Std-810
Salt Fog: Mil-Std-810
Sand & dust: Mil-Std-810



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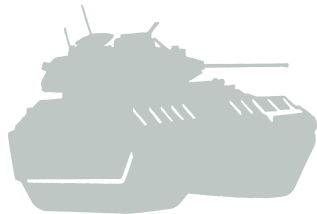
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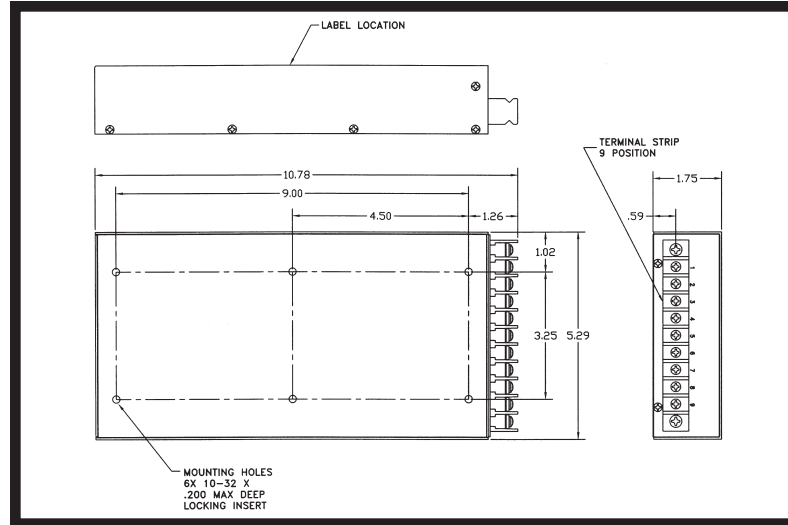
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Mechanical Drawings



Model Specifications

Single Outputs (non-standards upon request)			
Part no.	Power (Watts)	Voltage (VDC)	Current (Amps)
MS5 100/5	100	5	20
MS5 200/5	200	5	40
MS5 120/12	120	12	10
MS5 240/12	240	12	20
MS5 150/15	150	15	9
MS5 400/5	400	5	80
MS5 400/12	400	12	33
MS5 400/15	400	15	27
MS5 400/24	400	24	16
MS5 400/28	400	28	14

Single Outputs (non-standards upon request)			
Part no.	Power (Watts)	Voltage (VDC)	Current (Amps)
MS5 270/15	270	15	18
MS5 120/24	120	24	5
MS5 240/24	240	24	10
MS5 240/28	240	28	9
MS5 400/28	400	28	14
MS5 300/5	300	5	60
MS5 300/12	300	12	25
MS5 300/15	300	15	20
MS5 300/24	300	24	12.5

Multiple Outputs (other output combinations upon request)					
Part no.	Power (Watts)	Output 1 V/A	Output 2 V/A	Output 3 V/A	Output 4 V/A
MS5 240/M1	240W	12/10	12/10	N/A	N/A
MS5 240/M2	240W	15/8	15/8	N/A	N/A
MS5 185/M3	185W	5/15	12/3	12/3	N/A
MS5 185/M4	185W	5/15	15/3	15/3	N/A
MS5 220/M5	220W	5/20	12/3	12/3	24/2

AVS Front End:
Linearity derate from full load at 100 VAC to 50% load at 90 VAC.

Above 240w:
Linearity derate from full load at 25°C to 50% load at -40°C for start up only.

