



-AC Input-

- <u>AC Input</u> -				
Voltage/Current	AC 90-264V, 47-63Hz, 5.5A Max, 1 Phase.			
Fusing	AC 15.0A, 250V internal line fuse provided, non-user serviceable.			
Power Factor	>0.99 line PFC typical at AC 115V, full load.			
Inrush Current	Thermistor soft start (~25°C cold start). 30Apk @ AC 115V, 60Apk @ AC 230V.			
Transient Protection	MOV. Withstands transients as specified by EN61000-4-5 (differential / common mode).			
EMI Filtering	Meets CISPR22B Level A, and EN 55022 Level A.			
Efficiency	75% typical at AC 115V, full load.			
Redundant/Hot Swap	Full power N+1 redundant, hot swap capable.			
	- <u>DC Outputs</u> -			
Voltage/Current (V/A)	Refer to Model Chart.			
Line/Load Regulation	<±1% at the sense point over full AC input range and 0 – 100% output loading, sense leads connected.			
Minimum Loading	None required for single unit applications. 10% loading required in N+1, N2 configura- tions.			
Output Turn-on Delay	<1 sec from AC turn on. <100 msec from remote enable.			
Over/Under Shoot	None at turn-on or turn-off.			
Stability	Output drift <±0.2% after 20 min. warm-up.			
Temp. Coefficient	<±0.02%/ºC, 0-50ºC, after 20 min. warm-up.			
	Less than 3% deviation with a 25% load change at 1A/µsec. Output recovers to within 1% in less than 300µsec.			
	50mV max or <1% peak-to-peak nominal, whichever is greater, at the output terminals with a 20 Mhz bandwidth limit. May be measured with 0.1μF ceramic capacitor in parallel with a 22μF tantalum.			
Current Sharing/ Parallel N+1 Operation .	Single wire connection for ±10% current sharing between any number of units.			
	Output compensates for up to 0.5V total line drop in the load cables. Output internally sensed if leads are opened.			
Over Temperature Protection	Internal temperature sensing. Automatic recovery.			

General Product Specifications:

1UG Model Series 600W, Single Output.

Hold-up Time	Output remains in regulation >15msec mini- mum following loss of AC power at low line, full load.				
Over Current/Short Circuit Protection	. Standard hiccup (cycles on/off) current limit. When output current is 105% to 120% of full load.				
Over Voltage Protection	. Non-crowbar type. Output exceeding 25%±10% of nominal Vout will cause the out-put to latch off. Remote enable or AC input recycle required to reset.				
- <u>Signals</u> ,	-Signals, Indicators and Controls-				
Remote Enable	. Enabled by closed circuit or TTL logic 0. Disabled by open circuit or TTL logic 1.				
Power Fail Warning	Loss of input AC causes a TTL compatible signal to go low >4msec prior to the output dropping out of regulation. At AC turn-on, signal stays low until the output is in regula- tion.				
LED Indicator	Front panel mounted, single-color LED. Green indicates AC power ON and output within regulation. Off indicates an input and/or output power fault.				
-Operating Environment-					
Operating Temperature	O° – 50°C ambient at full load, with speci- fied airflow. Derates linearly to 50% at 70°C.				
Cooling	Front panel mounted dual DC ball bearing fans, rated 13 cfm minimum each. Forward airflow direction front to rear.				
Relative Humidity	Up to 90% RH, non-condensing.				
Operating Vibration 0.75G peak, 5 – 500Hz along three orthogonal axis.					
Storage Temperature	40° to 85°C.				
Altitude	. Operating to 10,000 ft. Storage to 30,000 ft.				
MTBF	Designed for 150,000 hours at 25°C.				
Single Output Model	-Interconnect- 18-circuit (3X6), sequential contact, hot plugable type. Located on the rear panel Positronic Ind. P/N PLC18M4BN0A2-164.1 Mates with PI P/N PLC18F300A1.				
<u>Note:</u> Use of the specified mating connector is required to insure proper "make/break" sequential contact sequence.					
AC Inlet Connector	Optional. Recessed 3-circuit IEC320/C14 User accessible on the front panel. Add "I" attend of model number to designate.				

-<u>Safety</u>-

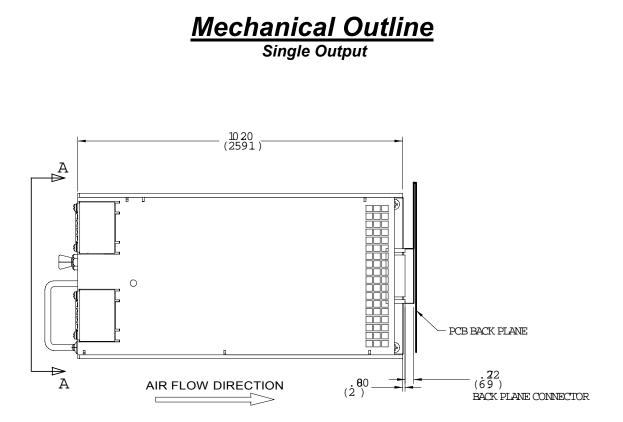
Designed to meet CSA C22.2 No. 60950/UL 60950 Third Edition, and TUV EN 60950 standards.

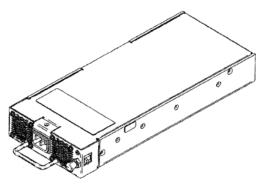
	Input:		
Model:	~100-240V	Output:	Fans:
	50/60Hz	Volts @ Amps	
	Single Phase		
600 Watt:	Input Amps:		
1UG24HP	6.5A Max	24V, 25.0A	Dual
1UG28HP	6.5A Max	28V, 21.4A	Dual
1UG48HP	6.5A Max	48V, 12.5A	Dual
1UG54HP	6.5A Max	54V, 11.1A	Dual

Immunity: Complies with EN 50082-1, IEC 802-2,3,4.

<u>1U() Single Output Input/Output and Signal</u> <u>Connector Type and Pin Functions:</u> Positronics Ind. P/N PLC18M4BN0. 18 circuit (3x6) hot plug- able type, with 16ga contact pin terminals. Glass filled polyester insulator material, rated 94V-0. Secured in the unit rear. Use of Positronic PLC18F series mating connector <u>is required</u> to ensure		Current Sharing/ Parallel N+1 Operation Remote DC Enable	 Single wire connection for ±10% current sharing between any number of units. Enabled by closed circuit or TTL logic 0. Disabled by open circuit or TTL logic 1. 	
correct mating contact sequence and current capacity. Pin# Sequence Function		Other Features:		
1 (2) standar 2 (2) standar 3 (1) postma 4 (2) standar 5 Blank	rd, Remote Voltage Adjust. rd, Power Fail Warning tte, Current Share Single	Undervoltage Protection	Auto DC output shutdown when AC input falls below safe operating limits (≈ 80VAC). Automatic recovery.	
 6 (2) standar 7 (2) standar 8 (2) standar 9 (2) standar 10 (3) postmar 	rd, L – Line (AC) Input. rd, +S1 (+V1) Remote Sense. rd, DC-OK Signal. rd, -S1 (-V1) Remote Sence. tte, Remote DC Enable. TTL Low/Closed= ON.	Under Voltage Warning	Loss of input AC causes a TTL compatible signal to go low >4msec prior to any output dropping out of regulation. At AC turn-on, signal stays low until output is in regulation.	
11 (1) premat 12 Blank	e, Primary Earth (PE) chassis ground. No connection.	Minimum Loading	None required.	
13,14 (2) standar 15 (1) premat 16 (2) standar 17 Blank 18 (2) standar	rd, +V1 (DC power output). re, -V1 (Rtn). rd, -V1 (Rtn). No connection.	Over Current/Short	. Standard hiccup mode (on/off cycle) current limit when Vout current is >105% to 120% of full load. Auto- matic recovery when overload is removed.	
LED 1: DC Power Good. Located on the front panel. The power supply is functioning within specifications when the LED indicator is green. Off indicates an input or output fault condition.		Over Voltage Protection	Non-crowbar type. Any output that exceeds $25\% \pm 10\%$ of nominal Vout will cause Vout to latch off. Remote enable or AC input recycle required to reset.	
Power Good (DC O	K) High signal when V-out is within +- 3% of nominal voltage. Signal goes low when V-out drops below 95% of nominal.	Over Temperature Protection	Internal temperature sensing. Causes Vout to shut down. Automatic recovery.	
Remote Adjust	External 0-5V DC on remote adjust pin referenced to negative sense equals – 5% to +5% change of nominal voltage.			
Remote Sense	Output compensates for			

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AC Input Option "I"