

Model PFC600

600 Watts output power

Power Factor Correction

Four Floating Outputs

H.A.L.T.
TESTED
Highly Accelerated Life Testing

Electrical Specifications

Input Voltage:	85-264 Vac, 47-63 Hz, 1 phase
Input Current:	<7.5A RMS @ 115 Vac @ full load <3.7A RMS @ 230 Vac @ full load <11.0A RMS @ 85 Vac @ full load
Inrush Current:	<37.5A, pk @ 132 Vac @ cold start <75A, pk @ 264 Vac @ cold start
Power Factor:	>0.99 @ full load @ 120 Vac input
Harmonic Distortion:	Meets IEC1000-3-2
EMI Filtering:	Meets CISPR 11 and 22 and FCC Level B
Input Protection:	Internal ac line fuse
Surge Withstand:	Meets EN61000-4
Output Power:	600 W continuous; 750W surge for ≤ 20 seconds
Line Regulation:	0.1% for V1, V2, and V3 0.2% for V4
Load Regulation:	0.25% for V1, V2, and V3 1% for V4
Cross Regulation:	0.1% for V1, V2, and V3 0.2% for V4
PARD:	<1% or 50mV; 20MHz bandwidth
Hold-up Time:	20 ms @ full load
Output Polarity:	All outputs are floating
Minimum Load:	10% on V1 output to ensure full regulation on all other outputs
Transient Response:	Greater of 150mV or 2% for 25% load change @ 1A/μs
Output Rise Time:	<100 ms (10% to 90%)



Remote Sense:	Standard on V1, V2, and V3 outputs
Remote On/Off:	V1 referenced; Ground = OFF Open or Hi = ON
AC Power Fail:	TTL logic "0" at least 5 ms before dc outputs drop 5%
Remote Margin:	±5% Hi and Lo, V1, V2, and V3
Remote Adjust:	±5%, V1, V2, and V3
Overvoltage Protect:	Factory set, 125% ±5% on V1 only, cycle ac to reset (optional for V2 and V3)
Overcurrent/Short Circuit:	All outputs; auto recovery
Reverse Voltage:	Reverse current up to rated outputs
Thermal Protection:	Auto off; auto reset upon cool down
Efficiency:	70%, typical @ full load
MTBF:	MIL-STD-HDBK 217E 100,000 hours @ 25°C, ground benign, Highly Accelerated Life Testing (HALT)

Available Voltage Outputs*

V1 Output Voltages (Volts)	V1 Output Current (Amps)	V2 Output Voltages (Volts)	V2 Output Current (Amps)	V3 Output Voltages (Volts)	V3 Output Current (Amps)	V4 Output Voltages (Volts)	V4 Output Current (Amps)
2.0	80	2.0	12/20 Pk	2.0	12/20 Pk		
3.3	80	3.3	12/20 Pk	3.3	12/20 Pk	3.3	6
5.0	80	5.0	12/20 Pk	5.0	12/20 Pk	5.0	6
12.0	33	12.0	12/20 Pk	12.0	12/20 Pk	12.0	6
15.0	27	15.0	10/20 Pk	15.0	10/20 Pk	15.0	6
24.0	17	24.0	6/12 Pk	24.0	6/12 Pk	24.0	3
28.0	14	28.0	5/10 Pk	28.0	5/10 Pk		
36.0	11						
48.0	8.5	48.0	3/6 Pk	48.0	3/6 Pk		

*Select one output each for V1 (Main), V2, V3, and V4. Consult factory for other voltages.

Model PFC600

Options

DC OK	PF Invert
DC OK Invert	Active Pre-Load V1
Gold Signal Pins	Sealed Pots
Metric Mounting	Remote on/off Invert

Certifications

UL1950	CSA C22.2 No. 950 M95
IEC950	EN60950
UL3101-1	EN61010-1
UL3111-1 (US and Canada)	
CSA C22.2 No. 1010.1-92	

Compliance

EN61000-4	CISPR 11,22
IEC1000-3-2	FCC Docket 20780 for EMI
CE Compliance to Low Voltage Directive	

#6-32 SCREW
.250 MAX LUG WIDTH

PIN NO.	TB1
1	CHASSIS GND
2	NEUTRAL
3	AC LINE

#6-32 SCREW
.250 MAX LUG WIDTH

PIN NO.	TB2
1	V4 OUTPUT
2	V4 RTN
3	V3 OUTPUT
4	V3 RTN
5	V2 OUTPUT
6	V2 RTN

J1 HEADER MATES
WITH MOLEX 22-55-2081

PIN NO.	J1
1	DC OK (OPTIONAL)
2	MARGHI1
3	MARGCOM1
4	-S1
5	CSH1
6	ON/OFF
7	PF
8	+S1

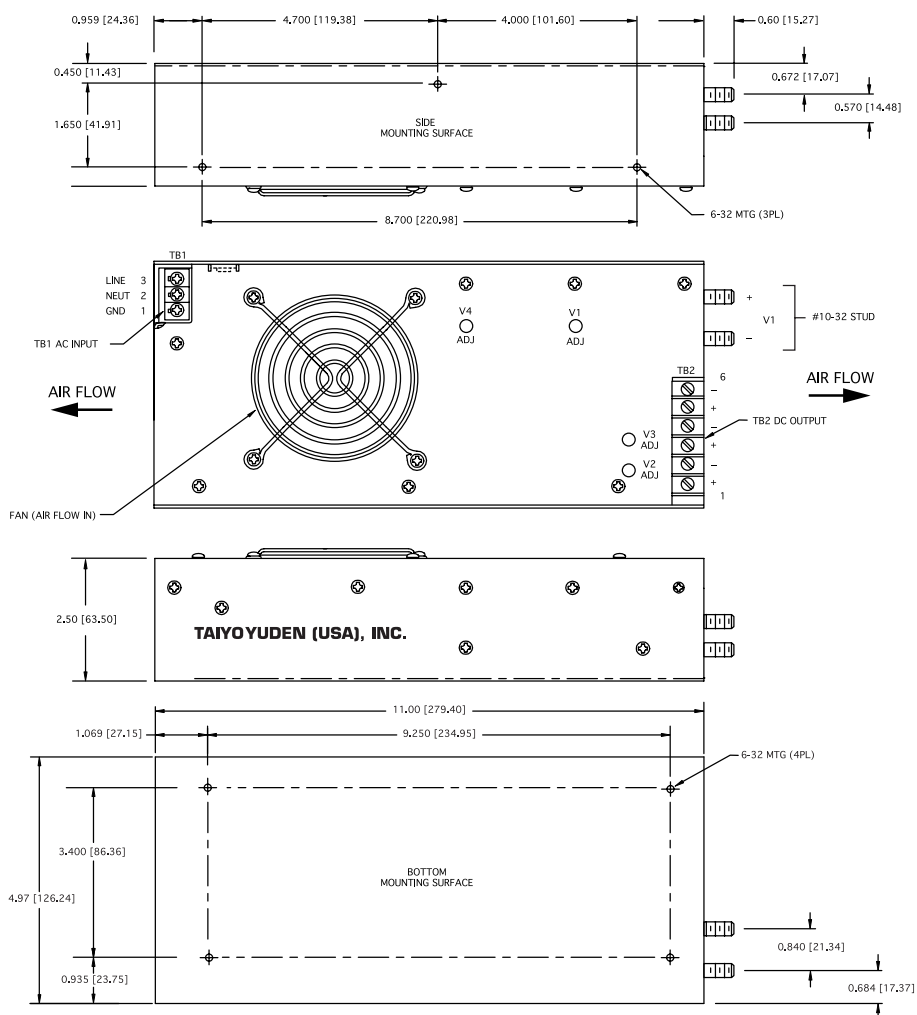
J5 HEADER MATES WITH BERG
HOUSING 65039-027 OR EQUIVALENT

PIN NO.	J5
1	MARCHI3
2	-S3
3	+S3
4	CSH2
5	MARGCOM2
6	CSH3
7	MARGCOM3
8	MARGHI2
9	-S2
10	+S2

UNIT WEIGHT
5.6 LBS

Physical Specifications

Dimensions:	2.5" x 5.0" x 11"
Finish:	Clear chem film
Operating Temp:	0 to 70°C; rated power to 50°C derate linearly to 50% at 70°C.
Relative Humidity:	30% to 90%, non-condensing
Storage:	-50 to 85°C/20-90% RH
Altitude:	10,000' operating; 40,000' storage



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