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TECHNOLOGY GROUP

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with experienced engineers and technicians on staff.

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so your equipment works exactly as you specify.

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INSTRUCTIONS D'INSTALLATION

Modèle: GHOF 4-5 GHOF 4-24
GHOF 4-12 GHOF 4-28
GHOF 4-15

1) Cet équipement doit être installé d'après les normes DIN IEC 380/VDE 0806/08,81. Si cet appareil est incorporé à de l'équipement de bureau, l'installation doit être faite selon les normes indiquées ci-dessus.

2) L'appareil doit être protégé par un fusible externe:
AC 100/120V: F 3A/125V
AC 220/240V: F 1,5A/250V

Le fusible doit être installé dans le circuit du conducteur non mis à la terre seulement.

3) Refroidissement: à convection.
Avertissement: La température de chassis peut excéder 90 deg. C. Lorsque l'appareil est installé dans de l'équipement de bureau, assurez-vous que la température du boitier reste en-dessous de 70 deg. C. pour prévenir toutes brulûres sérieuses.

4) Cet équipement peut être installé dans des appareils fixes (pertes de courant 3,5 mA max), ou portatifs (pertes de courant 0,75 mA max).

5) Des connexions sécuritaires de mise à la terre sont requises à l'aide de vis d'acier trempé de grosseur minimale #6, 3,5 mm dia. d'un écrou et d'une rondelle dentelée installés dans un trou sur le chassis. Un espace minimum de 4 mm doit être maintenu entre les parties activées et les connexions de mise à la terre.

6) Spécifications:
Entrée: AC 100/120/220/240V

7) Si les sorties sont interconnectées, la tension maximale tolérable SELV est 42,4V.

INSTALLATION INSTRUCTIONS

Model: GHOF 4-5 GHOF 4-24
GHOF 4-12 GHOF 4-28
GHOF 4-15

1) This equipment is approved in accordance with DIN IEC 380/VDE 0806/08-81. If installed in office equipment, the installation must comply with the same standards.

2) To comply with the safety standards, an external fuse is required.
AC 100/120V Fuse F 3A/125V
AC 220/240V Fuse F 1.5A/250V
Fuse must be installed in the ungrounded circuit conducter only.

3) Cooling method: Free convected air.
Warning: Unit surface temperatures may exceed 90°C. When installed into office equipment, ensure accessible surfaces do not exceed 70°C to prevent severe burns.

4) The ground leakage current does not exceed 0.05mA and the equipment is suitable for stationary or portable machines.

5) Safety ground connection is required with a minimum No. 6 (3.5 mm dia) plated metal screw, a nut, and a serrated washer through any free hole in the chassis. A minimum spacing of 4 mm must be maintained between live parts and the ground connection.

6) Specifications:
Input: AC 100/120/220/240 V

7) Outputs may be interconnected to provide higher current or voltage. To remain within SELV voltage ratings, the maximum voltage must not exceed 42.4V.

EINBAUANWEISUNG

Model: GHOF 4-5 GHOF 4-24
GHOF 4-12 GHOF 4-28
GHOF 4-15

1) Dieses Gerät ist zugelassen gemäss DIN IEC 380/VDE 0806/08.81. Im falle dass dieses Gerät in eine Büromaschine eingebaut werden soll, muss die Installation gemäss der obengenannten Norm erfolgen.

2) Das Gerät muss mit einer externen Sicherung abgesichert werden:
Netz AC 110/120V: F 3A/125V
Netz AC 220/240V: F 1.5A/250V

3) Kühlung ohne Lüfter.
Warnung - Rahmentemperatur kann 90 Grad C erreichen! Es muss sichergestellt sein dass, um schwere Verbrennungen zu vermeiden, in eingebautem Zustand externen Gehäusetemperaturen unter 70 Grad C bleiben.

4) Für Einbau entweder in ortsfesten Büromaschinen (Ableitstrom 3.5mA) oder in ortsveränderlichen Büromaschinen (Ableitstrom 0.75mA).

5) Eine zusätzliche Schutzleiterverbindung nach der obengenannten Norm ist notwendig.

6) Nenneingang:
AC 100/120/220/240 V

7) Bel zusammenschalten der Ausgänge ist die maximal zugelassene SELV Spannung 42.4V.

	Modèle	V	A	W (max)
SELV	GHOF 4-5	5	18,0	90,0
SELV	GHOF 4-12	12	10,2	122,4
SELV	GHOF 4-15	15	9,0	135,0
SELV	GHOF 4-24	24	6,0	144,0
non-SELV	GHOF 4-28	28	5,0	140,0

	Model	V	A	W (max)
SELV	GHOF 4-5	5	18.0	90.0
SELV	GHOF 4-12	12	10.2	122.4
SELV	GHOF 4-15	15	9.0	135.0
SELV	GHOF 4-24	24	6.0	144.0
non-SELV	GHOF 4-28	28	5.0	140.0

	Model	V	A	W (max)
SELV	GHOF 4-5	5	18.0	90.0
SELV	GHOF 4-12	12	10.2	122.4
SELV	GHOF 4-15	15	9.0	135.0
SELV	GHOF 4-24	24	6.0	144.0
nicht-SELV	GHOF 4-28	28	5.0	140.0

TECTROL INC

39 Kodiak Cr., Downsview, ON M3J 3E5
Tel. 416-630-4026 Fax 416-638-0553

TEC-GHOF4IN/9503

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TECTROL INC
SWITCHING POWER PRODUCTS

GFC

DC LINEAR POWER SUPPLIES

GHOF 4 SERIES

ELECTRICAL

Input Voltage
100/120/220/240 VAC + 10% - 13%
50/60 Hz

Line Regulation
±0.005% maximum over full input range - all models.

Load Regulation
±0.015% from zero to full load.

Output Ripple
< 1mV pk-pk (DC to 100 KHz).
3mV pk-pk max. (DC to 100 KHz)

Transient Response
Maximum deviation less than ±1%. Recovers within 0.5% in less than 20 µ sec (for a load change at 1A/µ sec with a minimum fixed load of 50%).

Overvoltage Protection
SCR crowbar type standard on 5V outputs set to 6.2V ± 8%. Factory installed option on other outputs set to:
13.7V ± 8% on 12V output
16.7V ± 8% on 15V outputs
27.7V ± 8% on 24V outputs
30.7V ± 8% on 28V outputs

Output Adjustment Range
± 5% minimum.

Stability
± 0.3% for 24 hours after warm-up.

Temperature
Operating: 0-70°C (derate linearly above 50°C to 50% load at 70°C).
Storage: -40°C to + 85°C.

Temperature Coefficient
< 0.03% per °C (0-70°)

Efficiency (minimum)
5V outputs 45%
12V and 15V outputs 55%
24V and 28V outputs 60%

Short Circuit and Overload Protection
Automatic, self-recovering, controlled profile foldback.

Remote Sensing
Standard on all models.

Remote Inhibit
Standard on all models.

Type Number	VOLTAGE	AMPS
GHOF 4-5	5	18.0
GHOF 4-12	12	10.2
GHOF 4-15	15	9.0
GHOF 4-24	24	6.0
GHOF 4-28	28	5.0

SAFETY

Global Series power supplies meet the safety requirements of the world's most respected safety agencies. All models meet or exceed the safety standards described in this section.

Leakage Current
Line to Ground (max) 0.05 mA.

Creepage Distance
Primary to Dead Metal (min) 9.0 mm (0.345 in)

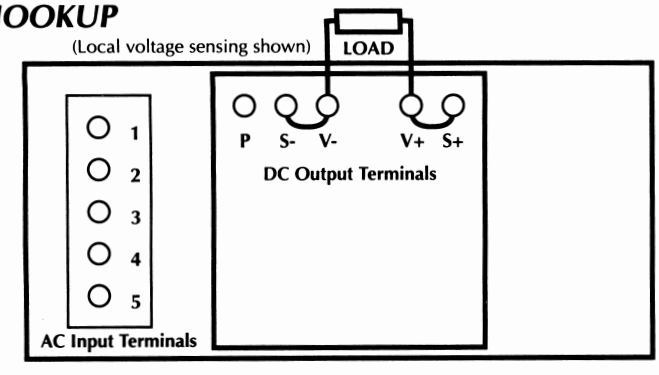
Dielectric Withstand Voltage (min)
Input to Ground 1250 VRMS
Input to Outputs 3750 VRMS
Outputs to Ground 500 VRMS

UL Recognized
UL File number E60885

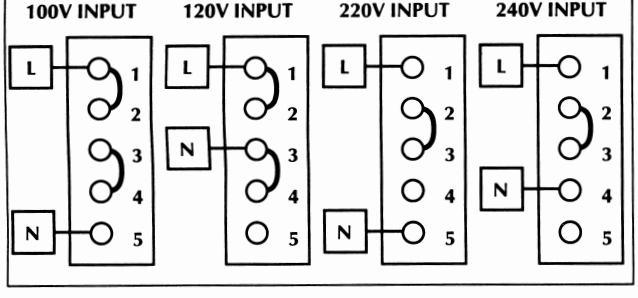
CSA Certified
CSA File Number LR53234

TUV Certified to VDE

HOOKUP

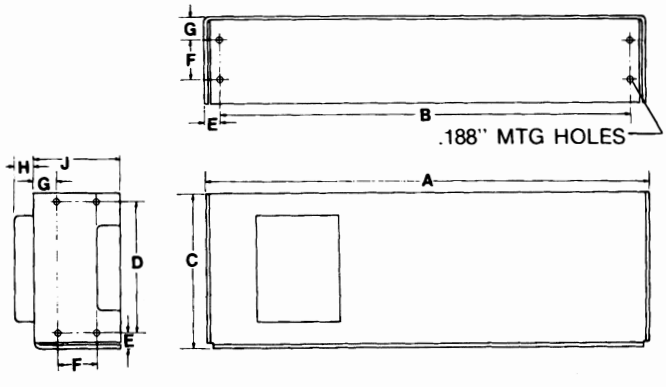


AC INPUT HOOKUP DIAGRAM



INPUT FUSE RATING		
100 OR 120 INPUT	TYPE (3AG) FAST BLO	3 AMPS
220 OR 240 INPUT	TYPE (3AG) FAST BLO	1.5 AMPS

MECHANICAL



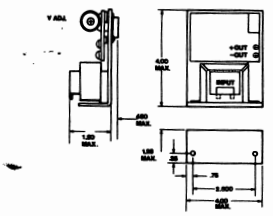
Overall Chassis Size — 14.00" x 4.88" x 2.750"

	Inches	mm
A	14.00	355.60
B	13.00	330.20
C	4.88	123.95
D	4.125	104.78
E	.50	12.70
F	1.25	31.75
G	.75	19.05
H	.65	16.51
J	2.75	69.85

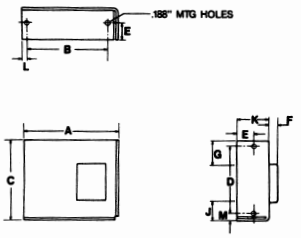
Telephone 416-630-4026 FAX 416-638-0553

MECHANICAL DIMENSIONS

A CASE



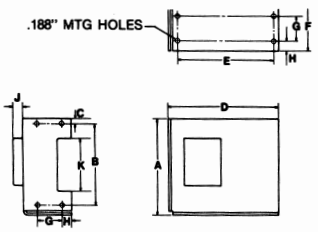
B CASE



Overall Chassis Size — 4.87" x 4.00" x 1.62"

	Inches	mm
A	4.87	123.70
B	4.125	104.78
C	4.00	101.60
D	3.375	85.73
E	.875	22.23
F	.45	11.43
G	1.25	31.75
J	.95	24.13
K	1.62	41.15
L	.25	6.35
M	.375	9.53

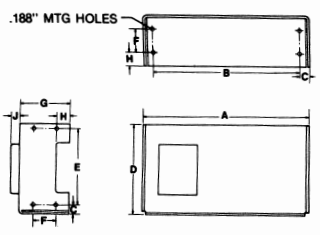
C CASE



Overall Chassis Size — 4.88" x 5.63" x 2.50"

	Inches	mm
A	4.88	123.95
B	4.125	104.78
C	.25	6.35
D	5.63	143.00
E	4.875	123.83
F	2.50	63.50
G	1.25	31.75
H	.50	12.70
J	.45	11.42
K	2.69	68.33

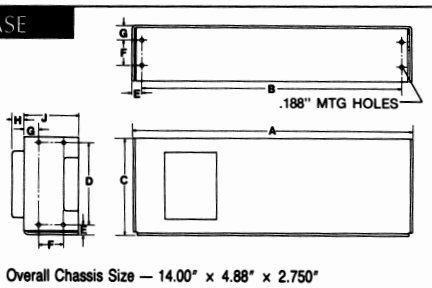
D CASE



Overall Chassis Size — 9.00" x 4.88" x 2.75"

	Inches	mm
A	9.00	228.60
B	8.00	203.20
C	.50	12.70
D	4.88	123.95
E	4.125	104.78
F	1.25	31.75
G	2.75	69.85
H	.75	19.05
J	.45	11.43

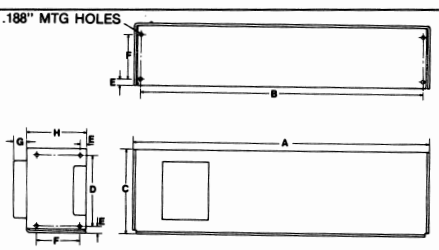
E CASE



Overall Chassis Size — 14.00" x 4.88" x 2.750"

	Inches	mm
A	14.00	355.60
B	13.00	330.20
C	4.88	123.95
D	4.125	104.78
E	.50	12.70
F	1.25	31.75
G	.75	19.05
H	.65	16.51
J	2.75	69.85

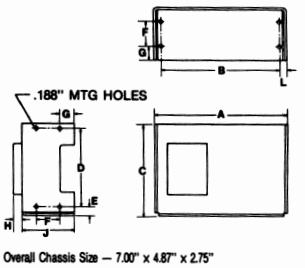
F CASE



	Inches	mm
A	16.75	425.45
B	16.00	406.40
C	4.88	123.95
D	4.125	104.78
E	.375	9.53
F	2.50	63.50
G	.75	19.05
H	3.50	88.90

Overall Chassis Size — 16.75" x 4.88" x 3.50"

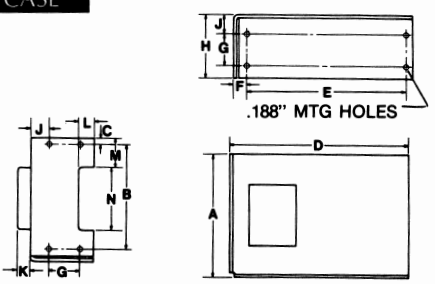
N CASE



Overall Chassis Size — 7.00" x 4.87" x 2.75"

	Inches	mm
A	7.00	177.80
B	6.25	158.75
C	4.87	123.70
D	4.125	104.78
E	.50	12.70
F	1.25	31.75
G	.75	19.05
H	.45	11.43
J	2.75	69.85
L	.375	9.53

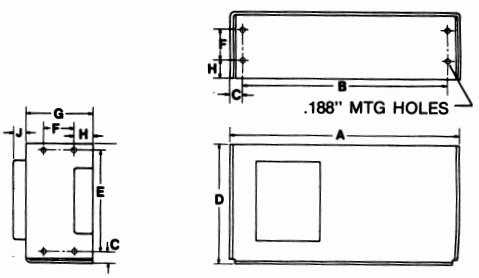
BB CASE



Overall Chassis Size — 4.87" x 7.00" x 2.50"

	Inches	mm
A	4.87	123.70
B	4.125	104.78
C	.25	6.35
D	7.00	177.80
E	6.25	158.75
F	.50	12.70
G	1.25	31.75
H	2.50	63.50
J	.75	19.05
K	.45	11.43
L	.63	16.00
M	1.13	28.70
N	2.50	63.50

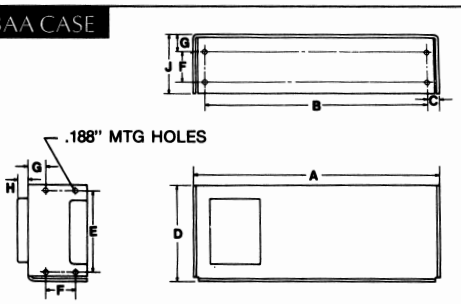
CC CASE



Overall Chassis Size — 9.38" x 4.88" x 2.750"

	Inches	mm
A	9.38	238.25
B	8.375	212.73
C	.50	12.70
D	4.88	123.95
E	4.125	104.78
F	1.25	31.75
G	2.75	69.85
H	.75	19.05
J	.45	11.43

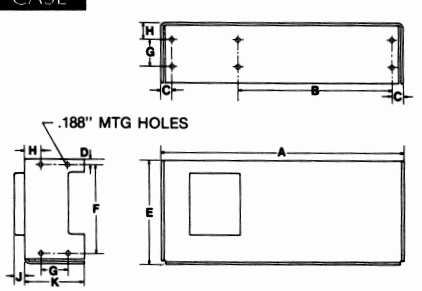
BAA CASE



Overall Chassis Size — 10.25" x 4.00" x 2.50".

	Inches	mm
A	10.25	260.35
B	9.25	234.95
C	.50	12.70
D	4.00	101.60
E	3.375	85.73
F	1.25	31.75
G	.75	19.05
H	.45	11.43
J	2.50	63.50

131 CASE



Overall Chassis Size — 11.00" x 4.88" x 2.75".

	Inches	mm
A	11.00	279.40
B	7.00	177.80
C	.50	12.70
D	.25	6.35
E	4.88	123.95
F	4.125	104.78
G	1.25	31.75
H	.75	19.05
J	.45	11.43
K	2.75	69.85

TECTROL INC

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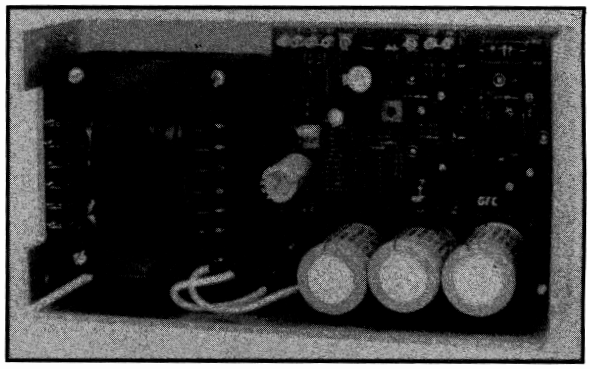
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SWITCHING POWER PRODUCTS

GFC
DC LINEAR POWER SUPPLIES

GLOBAL SERIES

- Independently regulated and isolated outputs
- Unique anti-lockout design
- Forced current sharing, without external diodes
- Standard remote inhibit
- OVP standard on all 5V outputs
- Full two year warranty



STANDARD MODELS AVAILABLE

SINGLE OUTPUT MODELS

VOLTAGE	Type Number	VOLTAGE/ CURRENT	CASE SIZE
5V	*GFOF M-5	5V 1.2A	A
5V	GHOF 1-5	5V 3.0A	B
5V	GHOF 2-5	5V 6.0A	C
5V	GHOF N-5	5V 9.0A	N
5V	GHOF 3-5	5V 12.0A	D
5V	GHOF 4-5	5V 18.0A	E
5V	GHOF 5-5	5V 25.0A	F
12V	GHOF 1-12	12V 1.7A	B
12V	GHOF 2-12	12V 3.4A	C
12V	GHOF N-12	12V 5.1A	N
12V	GHOF 3-12	12V 7.0A	D
12V	GHOF 4-12	12V 10.2A	E
12V	GHOF 5-12	12V 16.0A	F
15V	GHOF 1-15	15V 1.5A	B
15V	GHOF 2-15	15V 3.0A	C
15V	GHOF N-15	15V 4.5A	N
15V	GHOF 3-15	15V 6.2A	D
15V	GHOF 4-15	15V 9.0A	E
15V	GHOF 5-15	15V 15.0A	F
24V	GHOF 1-24	24V 1.2A	B
24V	GHOF 2-24	24V 2.4A	C
24V	GHOF N-24	24V 3.6A	N
24V	GHOF 3-24	24V 4.8A	D
24V	GHOF 4-24	24V 6.0A	E
24V	GHOF 5-24	24V 12.0A	F
28V	GHOF 1-28	28V 1.0A	B
28V	GHOF 2-28	28V 2.0A	C
28V	GHOF N-28	28V 3.0A	N
28V	GHOF 3-28	28V 4.0A	D
28V	GHOF 4-28	28V 5.0A	E
28V	GHOF 5-28	28V 10.0A	F
2 TO 6V	*GFOF M2-6	2-6V 1.0A	A
10 TO 16V	*GFOF M10-16	10-16V 0.5A	A
16 TO 24V	*GFOF M16-24	16-24V 0.4A	A

DUAL

VOLTAGE	Type Number	VOLTAGE/ CURRENT	VOLTAGE/ CURRENT	CASE SIZE
±5V	GHOF 1DB	5V 3.0A	5V 3.0A	BB
±5V	GHOF 2DB	5V 6.0A	5V 6.0A	CC
±12 TO ±15	GHOF 1DA	12-15V 1.5A	12-15V 1.5A	BB
±12 TO ±15	GHOF 2DA	12-15V 3.0A	12-15V 3.0A	CC
5V AND 12 TO 15V	GHOF 1DC	5V 3.0A	12-15V 1.5A	BB
	GHOF 2DC	5V 6.0A	12-15V 3.0A	CC
5V AND 24V	GHOF 1DD	5V 3.0A	24V 0.4A	BB
	GHOF 2DD	5V 6.0A	24V 2.3A	CC

TRIPLE

Type Number	VOLTAGE/ CURRENT	VOLTAGE/ CURRENT	VOLTAGE/ CURRENT	CASE SIZE
GHDD 100	24V 2.0A	5V 1.5A	5V 0.5A	BAA
GHDD 101	12-15V 1.0A	5V 3.0A	12-15V 1.0A	BAA
GHDD 102	24V 2.0A	5V 1.0A	12-15V 0.7A	BAA
GHOF 2TA	5V 8.0A	12-15V 1.5A	12-15V 1.5A	131

SPECIFICATIONS

Input Voltage
100/120/220/240VAC +10% -13%

Input Frequency
47-63Hz

Line Regulation
±.005% maximum over full range.

Load Regulation
±.015% from zero to full load.

Output Ripple
less than 1mV pk-pk
(DC to 100kHz).

Transient Response
Maximum deviation less than ±1%.
Recovers to within 0.5% in
less than 20µsec.

Overvoltage Protection
SCR crowbar type standard on +5V outputs. Set to 6.2V ±200mV. Optional on other outputs.

Operating Temperature
0 to +70°C. Derate linearly above +50°C to 50% load at +70°C.

Storage Temperature
-40°C to +85°C

Short Circuit and Overload Protection
Automatic, self recovering, controlled profile foldback and delayed re-entrant foldback type.

Remote Inhibit
Standard on series N,3,4,5, and 2TA (output 1 only).

Remote Sense
Standard on all models.

* These units are CSA only, 100/120VAC input, and do not include OVP, or Short Circuit and Overload Protection.

Telephone 416-630-4026 FAX 416-638-0553

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

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Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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