



POWER RECTIFIERS

SINGLE PHASE—FULL WAVE RECTIFIER STACKS

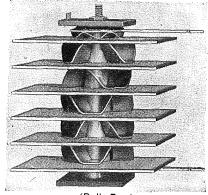
DC OU At 35°C.		CIRCUIT	Max. AC Input		APPROXIMA ENSIONS—		Figure	Catalog	CIRCUITS AND DIMENSIONAL DIAGRAMS
Volts	Max. Amps.	Refer to Diagram	Volts	A	В	С		No.	CENTER TAP (C.T.)
6-10	2	C,T.	13	3''	21/4"	3''	2	D-10	N+
6-10	4	C.T.	13	4''	2½" 2½"	4"	2	D-11	
6-10	6	C.T.	13	4''	21/2" 21/4" 21/2"	4"	2	D-12	EAC LOAD +
6-10	8	C.T.	13	5''	21/4"	6"	2	D-13	LOAD
6-10	12	C.T.	13	5"	21/2"	6"	2	D-14	A P FAC
6-10	15	C.T.	13	41/4"	21/4"	12"	3	D-15	+
6-10	22.5	C.T.	13	41/4"	2½" 2½"	12''	3	D-16] •
6-20	2	BR.	26	3''	3''	3''	2	D-17	
6-20	4	BR.	26	4''	3"	4''	2	D-18	BRIDGE (BR.)
6-20	6	BR.	26	4"	3¾"	4''	2	D-19	
6-20	8	BR.	26	5"	3''	6''	2	D-20	
6-20	12	BR.	26	5"	3¾"	6"	2	D-21	
6-20	15	BR.	26	41/4"	3"	12"	3	D-22	S CEAC TOAD
6-20	22.5	BR.	26	41/4"	3¾"	12"	3	D-23	
20-40	2	BR.	52	3''	41/2"	3''	2	D-24	
20-40	4	BR.	52	4''	4 ¹ /2" 4 ¹ /2"	4"	2	D-25	
20-40	6	BR.	52	4''	611	4''	2	D-26	8 or 10-32 THD
20-40	8	BR.	52	5"	41/2"	6''	2	D-27	7200
20-40	12	BR.	52	5''	6''	6''	2	D-28	
20-40	15	BR.	52	41/4"	41/5"	12"	3	D-29	
20-40	22.5	BR.	52	41/4"	611	12''	3	D-30	
40-60	2	BR.	78	3''	53/4" 53/4" 81/4"	3.,	2	D-31	1 - 13 - B 13 C - 1
40-60	4	BR.	78	4"	5¾"	4''	2	D-32	FIGURE-1
40-60	6	BR,	78	4''	81/4"	4''	2	D-33	
40-60	8	BR.	78	5"	53/4"	6"	2	D-34	5/16-18 THD 7/6
40-60	12	BR.	78	5"	81/4"	6"	2	D-35	
40-60	15	BR.	78	41/4"	53/4"	12"	3	D-36	
40-60	22.5	BR.	78	41/4"	81/4"	12"	3	D-37	
60-100	.5	BR.	130	1.6"	5"	1.6"	1	D-38	
60-100	1	BR.	130	2"	5"	2''	- 1	D-39	- 15 B - 15 B - C - C
60-100	2	BR.	130	3''	85%" 85%" 127%"	3"	2	D-40	FIGURE-2
60-100	4	BR.	130	4"	85/8"	4"	2	D-41	
60-100	6	BR.	130	4''	12 1/8"	4''	2	D-42	5/16-18 THD
60-100	8	BR.	130	5''	85/8"	6"	2	D-43	1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
60-100	12	BR.	130	5''	8 ⁵ /8'' 12 ⁷ /8''	6''	2	D-44	
100-120	.5	BR.	156	1.6"	57%"	1.6"		D-45	
100-120	- 1	BR.	156	2''	5 7/8" 5 7/8"	2''	1	D-46	
100-120	2	BR.	156	3''	10"	3"	2	D-47	
100-120	4	BR.	156	4"	10"	4''	2	D-48	FIGURE-3
100-120	6	BR.	156	4''	151/4"	4"	2	D-49	ALL DIMENSIONS
100-120	8	BR.	156	5''	10"	6"	2	D-50	ALL DIMENSIONS ARE APPROXIMATE
100-120	12	BR.	156	5"	151/4"	6''	2	D-51	Was will adding a

SARKES TARZIAN, INC., RECTIFIER DIVISION

Dept. RM



SELENIUM RECTIFIERS



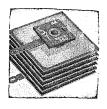
For All DC Power Requirements

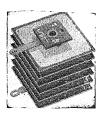












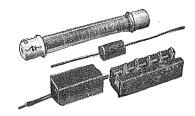
Model No.	Max. DC Current	Max. RMS Input Voltage	Max. RMS Current (MA)	Max. Inverse Peak Voltage	Max. Peak Current (MA)	Dimensions	Application
35 65 75 100 100A 150 200 250 300 350 450 108	35 65 75 100 100 150 200 250 350 450 100	130 130 130 130 130 130 130 130 130 130	90 162 187 250 250 375 500 625 750 875 1125 250	380 380 380 380 380 380 380 380 380 440 440	350 650 750 1000 1000 1500 2000 2500 3500 4500 1000	3/8"x5/8"x5/8"x5/8" 13/32"x1"x1"x11/16" 13/32"x1"x1"x13/16" 13/32"x1"x1"x13/16" 13/32"x1"x1"x1" 13/32"x1"x1"x1" 13/32"x1.6"x1.6"x11" 13/32"x1.6"x1.6"x11 13/32"x1.6"x1.6"x11 13/32"x1.6"x1.6"x17, 13/32"x2"x2"x2"x15/16" 13/32"x2"x2"x2"x17, 13/32"x1"x1"x15, 13/32"x1"x1"x15, 13/32"x1"x1"x15, 13/32"x1"x1"x15, 13/32"x1"x1"x15, 13/32"x1"x1"x15, 13/32"x1"x1"x15, 13/32"x1"x1"x15,	B+ Supply—Television B+ Supply—Radio-Television B+ Supply—½ Wave, Mobile Radio-TV
108D 208D 154B	100 200 150	160 160 25	250 500 270	440 440 440	1000 2000 1800	13/32"x1"x1"x15%" 13/32" x13/4"x11/4"x15%" 13/32" x1.6"x1.6"x15%" 13/32"x1"x1"x11/16"	B+ Supply—Doubler —Radio-Television B+—Doubler —Radio-Television B+—Doubler —Radio-Television Slaver Belging Street
304B 604B	300	25 25	540 1080	35 35	2400 4000	13/32" x1 ¼ "x1 ¼ "x11/16" 13/32" x1.6"x1.6"x11/16"	Filament—Relay Supply Filament—Relay Supply Filament—Relay Supply

HIGH VOLTAGE SELENIUM RECTIFIERS

Sarkes Tarzian high voltage selenium rectifiers are designed for use in photo-flash supplies, cathode ray oscilloscopes, television receivers, high potential test equipment, and electronic equipments used by military forces.

used by military forces.

Designated as Type 0 for current ranges to 5 milliamperes and as Type 1 for current ranges to 25 milliamperes, the units are available in half wave, full wave bridge, and center tap stacks. Both types are available with voltage ratings to 4000 in a single unit and hundreds of thousands of volts by using multiple units in series. In center tap and bridge circuits the maximum allowable D.C. current is 10 MA for Type 0 and 50 MA for Type 1 assemblies. The Type 0, in a glass enclosure is hermetically sealed for high humidity operation (Half Wave units only) and mounting is by means of silver plated ferrules. The bakelite enclosed Type 0 rectifiers are designed for normal commercial use and electrical connection is made by means of axial pigtail leads. For inverse voltage ratings to 208 volts A.C. the unit is self supporting; longer assemblies require a mounting clip.





The Type 1 rectifier is available only in square bakelite enclosures. The unit, normally supplied, is not hermetically sealed; however, it is possible to "capsulize" the Type 1 rectifier for high humidity applications.

For complete information or engineering assistance—write, phone or wire. No obligations on your part.

New Handbook Available
& Television circuit diagrams . . . 20 pages on Power Rectifiers 3 pages of High
Voltage Rectifiers . . . a 7 page cross index replacement guide. (Price 50 cents)

SARKES TARZIAN, INC., RECTIFIER

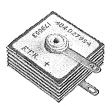
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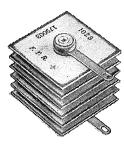
Federal Miniature Selenium Rectifiers

The revolutionary rectifier with unlimited use in radio · television · electronics

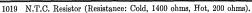








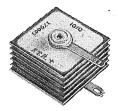
Federal Code Number	Out- put MA DC		put MS) MA	In- verse Volts	e Peak s MA	Plate Size	Application	Sugg'd Retail Price Each
1159 1002A 1003A 1101A 1004A 1005A 1006A †1010 *1028A 1087A 1090A 1023 1130 1021 1179 1014A 1029A 1022 1007A 1008A 1009A 1015 1016 1017 1013 1018	20 65 75 100 100 150 250 250 250 350 400 450 500 1100 200 450 75 100 200 450 75 200 200 200 200 200 200 200 200 200 20	130 130 130 130 130 130 130 130 130 130	50 160 220 160 220 160 225 425 550 900 1000 1150 325 550 220 220 325 550 1150 1150 1150 1150 1160	380 380 380 380 380 380 380 380 380 380	200 750 900 750 1200 1200 2000 2000 2000 2000 4000 400	3/" dia. 1" sq. 1" sq. 1" sq. 1" sq. 19:2" x 113:4" 19:2" x 12:5" 112:5" sq. 112:5" sq. 112:5" sq. 112:5" sq. 112:5" sq. 2" sq. 2" sq. 2" sq. 2" sq. 113:5" sq. 114:5" sq. 114:5" sq. 115:5" sq.	B+Booster Bias B+AC-DC5 Tube B+3 Way Radio B+Radio Telev. B+Radio Telev. B+Redio Telev. B+Telev. B+Tel	\$1.10
1001	75	20	220	55	900	i" sq. (Mtg. Plt.)	Bias Rectifier	.03

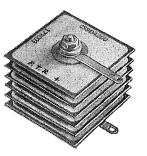


- The characteristics given are based on its use in a half-wave rectifier circuit with a .3 cell
- § The characteristics given are based on its use in a full-wave rectifier circuit with a .3 cell
- ‡ Rating per section-2 sections per rectifier.
- † Stud construction.
- * Eyelet construction.

Letter "A" following catalog number indicates locking lug.







Federal Selenium Rectifier Replacement KITS are a Hit with Servicemen!

Each Kit contains 2 of each of 4 "Preferred Types" for MOST Radio-TV Replacements

Federal's 8-unit Kits are the convenient, time-saving way for servicemen to make radio-TV replacements "on the spot."

Kit No. 1 contains types for handling 90% of television replacement jobs.

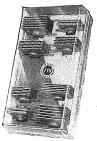
Kit No. 2 contains types for most radio replace-

Federal Kits are valuable aids in servicing more than 30,000,000 selenium rectifiers now in the field.

Consult your local Federal Distributor or write to Federal direct.



KIT No. 1



KIT No. 2 (Clear Plastic Utility Package)

Federal's Popular Selenium Rectifier Publications



Federal's Miniature Selenium Rectifier Handbook-48 pages of valuable design and application data on America's most complete line of miniature selenium rectifiers.

Federal Selenium Rectifier Replacement Guide-the most complete book of its kind. Simplifies and speeds replacement of selenium rectifiers in radio-TV receivers. A "must" for servicemen. Price Each......50¢



Federal Telephone and Radio Corporation





America's Oldest and Largest Manufacturer of Selenium Rectifiers

PACKAGED POWER SELENIUM RECTIFIER STACKS

by Federal

Federal has America's largest stock of stacks for all popular applications . . . available for prompt shipment. Special design data and prices for the asking.

NOTE: Ratings for 35° C. Ambient; Resistive or Inductive loads; all designs shown are for single phase full wave rectification.

PRICE LIST and DATA SHEET

Effective September 15, 1951

	mum Output cimate)‡	Rectifier Stack Code Number	Maximum Circuit A.C. and Stack Input Conn.		Rectifier Stack Dimensions			Catalog Number	Net User's Price
, Volts	Amps.		Volts	Diagram	A	B±½6"	Fig.		
10	3.0 6.0 12.0	106C1AX1 133C1AX1 136C1AX1	13 13 13	'B'	33/8" 43/8" 5"x6"	19/16" 13/4" 13/4"	1 1 .2	2100 2101 2102	\$ 6.67 8.33 11.91
20	$\begin{array}{c} 3.0 \\ 6.0 \\ 12.0 \end{array}$	106B1AX1 133B1AX1 136B1AX1	26 26 26	'A'	3 ³ / ₈ " 4 ³ / ₈ " 5"x6"	2½6" 2½6" 2½6" 2¾4"	1 1 2	2103 2104 2105	9.42 12.58 20.50
40	3.0 6.0 12.0	106B2AX1 133B2AX1 136B2AX1	52 52 52	'A'	33/8" 43/8" 5"x6"	39/16" 5" 51/4"	3 3 4	2026 2107 2108	15.00 21.17 34.00
60	3.0 6.0 12.0	106B3AX1 133B3AX1 136B3AX1	78 78 78	'A'	33/8" 43/8" 5"x6"	$4\frac{1}{2}''$ $6\frac{3}{4}''$ $7\frac{5}{16}''$	3 3 4	2118 2033 2085	20.00 29.17 46.92
80	3.0 6.0 12.0	106B4AX1 133B4AX1 136B4AX1	104 104 104	'A'	3 ³ / ₈ " 4 ³ / ₈ " 5"x6"	5½" 89½" 95½"	3 3 4	2109 2110 2111	24.92 37.17 59.84
100	1.0 2.4 6.0	139B5AX1 106B5AX1 133B5AX1	130 130 130	'A'	2" sq. 338" 438"	$5\frac{3}{8}$ 8" $6\frac{5}{8}$ 8" $10\frac{9}{16}$ "	5 3 3	2112 2113 2114	16.25 29.83 45.17
120	$0.3 \\ 0.6 \\ 1.0 \\ 2.4 \\ 6.0$	103B6AX1 104B6AX1 139B6AX1 106B6AX1 133B6AX1	156 156 156 156 156	'A'	1932"x1 ¹³ 64" 1 ¹⁷ 32" sq. 2" sq. 3 ³ 8" 4 ³ 8"	434" 478" 676" 758" 125/6"	5* 5 5 3	2115 2036 2116 2038 2117	14.17 16.34 18.75 34.92 53.17

[‡] Resistive or Inductive Loads.

* 8-32 Thread



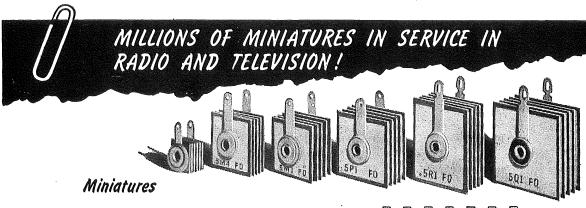
Consult your local Federal Distributor or write to Federal direct—

Federal Telephone & Radio Corporation

100 KINGSLAND ROAD

SELENIUM-INTELIN DIVISION

CLIFTON, N. J.



MINIATURE SELETRON SELENIUM RECTIFIERS

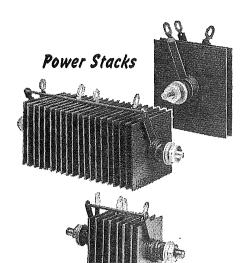
MODEL NO.	PLATE Size	STACK THICKNESS		MAX. PEAK Inverse Voltage	MAX. D.C. OUTPUT CURRENT	LIST PRICE
1M1 8Y1 16Y1 8J1 5M4 5M1 5P1 6P2 5R1 6Q1 5Q31 6Q32 6Q4(†) 6Q52 6Q52 5S1	1" sq. 1/2" sq. 1/2" sq. 11/16" sq. 1" sq. 1 3/16" sq. 1 3/16" sq. 1 1/2"x1 1/4 1 1/2" sq. 1 1/2"x2" 2" sq.	3/8" 9/16" 15/16" 9/16" 11/16" 7/8" 7/8" 1 3/16" " 7/8" 1 1/8" 1 1/8" 1 1/8" 1 1/4" 1 1/4" 1 1/8" 1 1/8"	25 130 260 130 130 130 130 156 156 156 130 156 130	75 380 760 380 380 380 380 456 380 456 380 456 380 456 456	100 MA 20 MA* 20 MA* 65 MA 150 MA 150 MA 150 MA 250 MA 250 MA 250 MA 350 MA 350 MA 350 MA	\$0.83 1.15 2.28 1.38 1.38 1.65 2.00 2.45 2.60 2.85 3.22 3.28 3.28 3.28 4.05 4.05 5.20

- This rectifier is rated at 25 MA when used with a 47 ohm series resistor.
- (†) Stud mounted—overall: 2".



SELENIUM RECTIFIERS

SELETRON Selenium Rectifiers are finding use in wider and wider fields of application ranging from half wave stacks for bias supply such as 8Y1 listed at the left, to multiple assemblies capable of delivering many kilowatts. Typical examples of such SELETRON power use are installations operating elevators in more than 100 office buildings in New York and Chicago; an assembly of 48 volts, 10,000 amps for electrolysis of water, and the spectacular Eveready searchlight on New York's Great White Way.



INDUSTRIAL TYPE SELENIUM RECTIFIERS STOCKED BY JOBBERS Single Phase - Full Wave Bridge - Resistive-Inductive Load

I	D.C.	D.C. OUTPUT @ 35°C		MAX. INPUT		RECTIFIER	BRACKETS
ı	MAX.		(. VOLTS	R.M.S.	RECTIFIER	LIST PRICE	LIST
L	AMPS.	NEW	AGED	VOLTS	CODE NO.	DIGIT I KIGE	EACH
1	0.9	18	17	24	Q1B1S1B	\$2.40	.17
1	1.4	19	18	24	S1B1S1B	4.16	.22
1	3.2	18	17	24	U1B1S1B	6.34	.22
1	5.2	18	17	24	F1B1S1B	8.82	.28
1	10.0	18 18	17	24	H1B1S1B	12.38	.44
1	20.0	18	17	24	H1B2S1B	23.43	.44
1	30.0	19	18	24	WH1B3S1B	35.26	.44
١	0.45	37	35	48	P2B1S1B	5.00	.17
1	0.9	37	35	48	Q2B1S1B	5.64	.17
1	1.4	37	35	48	S2B1\$1B	7.60	.22
1	3.2	37	35	48	U2B1S1B	11.25	.22
1	5.2	37	34	48	F2B1S1B	16.08	.28
1	10.0	37	34	48	H2B1S1B	22.71	.44
1	16.0	37	35	48	H2B2S1B	42.73	.44
1	24.0	37	35	48	H2B3S1B	61.95	.44
1	0.9	112	105	144	WQ6B1S1B	14,65	.17
١	1.4	114	108	144	WS6B1S1B	21.32	.22
1	2.4	112	106	144	U6B1S1B	27.53	.22
1	5.2	110	103	144	WF6B1S1B	44.46	.28
١	0.9	130	122	168	WQ7B1S1B	16.57	.17
1	1.4	133	126	168	WS7B1S1B	24.56	.22
١	2.4	131	123	168	U7B1S1B	31.29	.22
1	5.2	129	120	168	WF7B1S1B	50.97	.28

Ou. Engineering Department will be glad to aid you in the solution of your rectifier problems without obligation. Write for booklet on SELETRON Selenium Rectifiers — Address Dept. US-5.

ROBERT SELETRON DIVISION ROBERT RADIO RECEPTOR COMPANY, Inc.

Since 1922 in Radio and Electronics

Sales Department: 251 West 19th St., New York 11, N. Y. Factory: 84 North 9th St., Brooklyn 11, N. Y.

• ELECTROX'

Low-Capacity RECTIFIER UNITS

Circuit

3

1

4

2

3

1

2

5

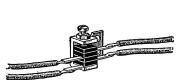
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3

Used by most leading test set manufacturers as original components in their equipment.

*Trade Mark Reg. U. S. Pat. Off.

Full and half wave, low-capacity copper oxide rectifiers for instruments, test sets and similar applications. Electrox Rectifiers are made by a pioneer manufacturer of high-quality, dry disc rectifiers. Each type is specially adapted to meet the individual requirements of the user; each unit is individually inspected, tested, and guaranteed right. For dependability, get genuine Electrox Rectifiers!





Max. Continuous Rating

1

1

5

13

13

13

20

32

32

32

64

A.C. Rms. Volts

1.5

4

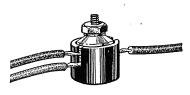
3*

3

3*

3*

4.1



TYPE B-2 CAT. No. 5047 CAT. No. 5049

No. of Elements

4

1

2

2

4

1

2

2

4

4

4 lugs

5 lugs

5 leads

Element

1/8

7/s

7/16

7/16

7/16

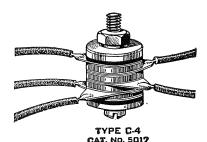
3/4

3/4

¾

3/4

3/4



Connections	Lead Length Inches	Type	Cat. No.
4 leads	4	AA-4	5064
4 leads	3	A-4	5020
2 leads	3	B-1	5048
3 leads	3	B-2	5047
3 leads	3	B-2	5049
5 leads	3	B-4	5016
2 lugs		C-1	5011
3 leads		C-2	5057

C-2

C-4

C-4

5010

5014

5017

64		3		4.1
#2	wolte	A C	ner e	lament

†3/6" square.

CIRCUIT DI	AGRAMS	FIG. 3 FULL WAVE	FIG. 4 · FULL WAVE	FIG. 5 TWO SEPARATE
FIG.1 HALF WAVE	FIG. 2 DOUBLER	BRIDGE	CENTER TAP	HALF WAVE RÉCTIFIERS
>1		2C -	= 1 + 4 = =	

SCHAUER MANUFACTURING CORP. • Cincinnati, Ohio

Makers, since 1930, of high-quality, dry disc rectifiers.

BRADLEY RECTIFIERS AND PHOTOCELLS

VACUUM PROCESSED FOR PERFORMANCE AS RATED

SELENIUM



HIGH-VOLTAGE RECTIFIERS (SE6M Series). Ratings to 5 ma D.C.—6000 volts maximum peak inverse. Hermetically sealed in glass tubes. Ferrules for fuse type mounting.

POWER RECTIFIERS (SE11 Series). Ratings from 50 ma to thousands of amperes. Available in half-wave, full-wave bridge, volt-



age multiplier, center tap full-wave, polyphase, and special connections to customer's current and voltage requirements. Plate size from 1"x1" to 5"x6".

LIMITER (SR Series). For magnetic amplifier and special applications. Hermetically sealed to meet all specifications,





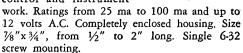
MINIATURE HIGH-VOLTAGE RECTIFIERS (SE8 Series). Completely sealed in Bakelite housings. Ratings up to 6000 volts peak inverse and 12.5 ma D.C. Size from ½" diameter x 5%" long.

HALF-WAVE RECTIFIERS (SE9 Series). Rated from 50 ma to 500 ma. Peak inverse up to 500 volts. Plate size from 1"x1". Length ½" to 1½".



COPPER OXIDE

HIGH CONVERSION
RATIO RECTIFIERS
(CX4D Series), for electronic
control and instrument





MINIATURE HERMETICALLY SEALED RECTIFIERS (CX23 Series). Modulators and bridges with matched sections for detecting phase differentials in A.C. currents and small D.C. potentials applied to balanced A.C. circuits. Maximum 2 volts continuous as modulators, 6 volts as bridges.

LOW-CURRENT HIGH-FREQUENCY RECTIFIERS (CX8C Series).



Rated up to 36 volts A.C. 500 microamperes D.C. Size 1/4" diameter x 5/8" long. 21/2" tinned leads.



CONTROL AND TEST EQUIPMENT RECTIFIERS (C014D Series). Rated from 20 ma half-wave to 35 ma full-wave, up to 6 volts

A.C., 4 volts D.C. Single 6-32 screw mounting.

INSTRUMENT RECTIFIERS (CX2E Series). Rated up to

6 volts A.C., 4.5 volts D.C., 5 ma D.C. for conventional circuits and special current control applications. Two 7/64" diameter mounting holes. 3" gold leads.



BALANCED BRIDGES AND MODULATORS (CX3E Series) with current and temperature characteristics balanced to better than 1% over a range of -40°C. to 70°C. Up to 12 volts A.C., 8 volts D.C., 5 ma D.C. Hermetically sealed.



NEW HANDBOOK AVAILABLE

Valuable reference for engineers. Contains design considerations as well as complete descriptions of Bradley Rectifiers and Photoelectric Cells. Available on request to qualified engineers.

SELF-GENERATING PHOTOELECTRIC CELLS

BRADLEY LABORATORIES, INC.

168 COLUMBUS AVENUE, NEW HAVEN 11, CONNECTICUT

International Sale

As easily installed as a Resistor or Condenser.

130 Volts

RMS



Only 2 Soldering Operations required.

Peak Inverse Volts: 380

FOR ELECTRONIC APPLICATIONS UP TO 1,000 MA

Approximate Voltage Drop: 5 volts **RATINGS AVAILABLE**

Type No.						
Current (ma)	75	100	150	200	250	1000
	CEN	D EOD D	HILETIN	15 12/0		

POWER RECTIFIERS



Suitable for Oil Immersion

POWER FACTOR 95%

RATINGS TO 250 KW

FOR ELECTROPLATING, BATTERY CHARGING, ELEVATOR AND AIRCRAFT POWER SUPPLY UNITS, ETC. **PARTIAL LIST OF POWER RECTIFIERS**

TYPE NO.	DC VOLTS	DC AMPS	SIZE PLATE
D507	0-15	0.5	1 1/4 " Sq.
D510	0-15	3.0	3" Sq.
D513	0-15	14.0	61/4"x 71/4"
D517	15-30	3.0	3" Sq.
D520	15-30	14.0	61/4"x 71/4"
D521	95	5.0	4 3/8 " Sq.
	WRITE FOR BU	LLETIN C-349	

CARTRIDGE TYPE

RATINGS TO 25 KV AND 75 MA.

In half-wave, voltage doubler or bridge circuits From $\frac{1}{4}$ " to $\frac{1}{4}$ " O.D. or built to your specifications

TYPICAL APPLICATIONS

BIAS SUPPLIES CONDENSER TESTING
CATHODE RAY TUBES
ELECTRON MULTIPLIERS ELECTROSTATIC PROCESSES
GEIGER COUNTERS
INVERSE PEAK SUPPRESSORS
PHOTOFLASH POWER SUPPLIES

TELEVISION CIRCUITS

TYPE V-HF SERIES 1/2 WAVE - 5 MA, DC



TYPE V-HF SERIES

DC OUTPUT VOLTAGE	RECTIFIER PART NO.	DC OUTPUT VOLTAGE	RECTIFIER PART NO.
20	V1HF	1000	V50HF
60	V3HF	2000	V100HF
100	V5HF	3000	V150HF
400	V20HF	4000	V200HF

TYPE Y-HP SERIES 1/2 wave-11 MA. DC

10.592.60 DC OUTPUT VOLTAGE RECTIFIER PART NO. DC OUTPUT VOLTAGE RECTIFIER PART NO. 1000 Y50HP 20 YIHP **Y3HP** 2000 Y100HP 60 Y5HP 3000 Y150HP 100 Y20HP 4000 Y200HP 400

TYPE U-HF SERIES 1/2 wave-1.5 MA. DC

1/4" Diameter Rating to

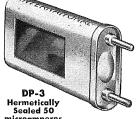


Fit standard automotive type Fuse clips

4,000 v. DC PARTIAL LIST OF U-HF SERIES AVAILABLE

DC OUTPUT VOLTAGE	RECTIFIER PART NO.	STD. AUTO-TYPE FUSE CLIP	MAX. LENGTH INCHES
200	U10HF	7-AG	27/32
360	U18HF	7-AG	27/32
500	U25HF	8-AG	31/32
600	U30HF	3-AG	1-7/32
700	U35HF	9-AG	1-3/8
WRITE FOR BULLETIN H-1			

PHOTO-ELECTRIC CELLS SELF-GENERATING TYPE



microamperes at 100 foot-candles



DP-2 Hermetically Sealed 25 microamperes at 100 foot-candles



A-2M 13 microamperes at 100 foot-candles



Hermetically Sealed Up to 600 microamperes at 100 foot-candles

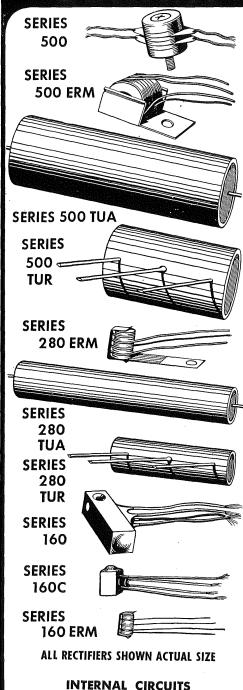
Unmounted Cells Available



Bulletins PC-649, PPC-250, HPC-450 HPC-252

GENERAL OFFICES: 1521 E. Grand Ave. El Segundo, Calif. Phone El Segundo 1890 CHICAGO BRANCH OFFICE:

205 W. Wacker Dr. Franklin 2-3889



Standard rectifiers are connected internally according to one of the five circuit diagrams shown.

Cable Address NATVARNCO **New York**



Miniature Metallic Rectifiers

STANDARD SINCE 1 9 3 3

SERIES 500 Copper oxide only. Color coded. Welded lead wires 3" long. Synthetic lacquer-enamel finish. Single 6-32 stud mounting. Available in special types. Cell diameter .500". Cell rating 5 r.m.s. volts, 30 average

SERIES 500-ERM Copper oxide or selenium. Color coded. Solid lead wires 3" long. Lacquer finish. Single hole mounting. Available in special types. Cell diameter .500". Cell ratings, copper oxide 5 r.m.s. volts, 30 average mils; selenium, 25 r.m.s. volts, 30 average mils.

SERIES 500-TUA Selenium only. Color coded. Solid axial leads 3" long. Lacquer finish. Mounts by lead wires only. Fully enclosed and sealed in phenolic tube. Half wave types only for high voltage. Cell diameter .500". Cell rating 25 r.m.s. volts, 30 average mils. Per cell ratings subject to derating according to rectifier design.

SERIES 500-TUR Selenium only. Color coded. Solid radial leads 3" long. Lacquer finish. Mounts by lead wires only. Fully enclosed and sealed in phenolic tube. Cell diameter, .500". Cell rating 25 r.m.s. volts, 30 average mils. Per cell ratings subject to derating according to rectifier design.

SERIES 280-ERM Copper oxide or selenium. Color coded. Solid lead wires 3" long. Lacquer finish. Mounts by "Bracketerminal" combining cathode (plus) terminal and mounting bracket. Available in standard types only. Cell diameter .280". Cell rating, copper oxide, 5 r.m.s. volts, 10 average mils; selenium, 25 r.m.s. volts, 10 average mils.

SERIES 280-TUA Selenium only. Color coded. Solid axial leads 3" long. Lacquer finish. Mounts by lead wires only. Fully enclosed and sealed in phenolic tube. Half wave types only, for high voltage. Cell diameter .280". Cell rating 25 r.m.s. volts, 10 average mils. Per cell rating subject to derating according to rectifier design.

SERIES 280-TUR Selenium only. Color coded. Solid radial leads 3" long. Lacquer finish. Mounts by lead wires only. Fully enclosed and sealed in phenolic tube. Cell diameter .280". Cell rating 25 r.m.s. volts, 10 average mils. Per cell rating subject to derating according to rectifier design.

SERIES 160 Copper oxide or selenium. Color coded. Welded lead wires 3" long. Fully enclosed and sealed in molded phenolic case. Mounts by #2 screw. Cell diameter .160". Cell rating, copper oxide, 5 r.m.s. volts, 5 average mils; selenium, 25 r.m.s. volts, 5 average mils.

SERIES 160-C Copper oxide or selenium. Color coded. Welded lead wires 3" long. Fully enclosed and sealed in welded brass case. Mounts in midget fuse clip. Cell diameter .160". Cell rating, copper oxide, 5 r.m.s. volts, 5 average mils; selenium, 25 r.m.s. volts, 5 average mils.

SERIES 160-ERM Copper oxide or selenium. Color coded. Solid leads 1" long. Lacquer finish. Mounts by lead wires only. Cell diameter .160". Cell rating, copper oxide, 5 r.m.s. volts, 5 average mils; selenium, 25 r.m.s. volts, 5 average mils.

Standard rectifiers are connected internally according to one of the five circuit diagrams shown.

Series 500, 160 and 160-C are the well known standard line of instrument rectifiers and are constructed to the highest standards of quality. Construction is conventional.

TUA (tubular, axial leads) and TUR (tubular, radial leads) construction is desirable especially in rectifiers designed for high voltage operation. Total enclosure of the stack however limits heat radiation necessitating derating of cells.

ERM (external resilient member) construction insures maintenance of optimum stack pressures regardless of ambient or operating temperatures. Rectifiers in ERM construction are smaller, lighter and cheaper.



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