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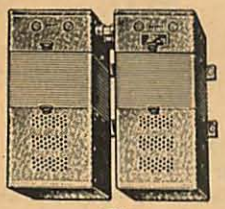
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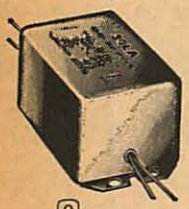
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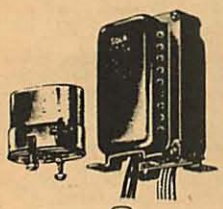
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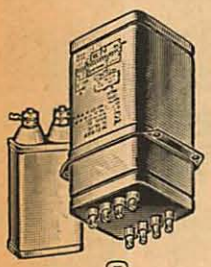
SOLA CONSTANT-VOLTAGE REGULATORS AND TRANSFORMERS


A


B

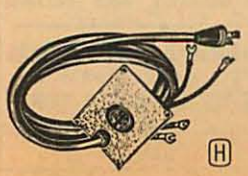

C


D


E


F


G


H

CVS STANDARD SINUSOIDAL TYPE

Regulate voltage output within ±1% regardless of input voltage variations as great as ±15%. Ultra-fast regulating action. Response time is usually 1.5 cps or less. Less than 3% total rms harmonic content. Particularly suitable for use with equipment having elements sensitive to power frequencies harmonically related to fundamental. Use no filters, eliminating need for extra capacitors and noisy chokes. Smaller and more rugged than transformers using filters for wave-shape improvement. For 60 cps, single phase operation.

Sola No.	Fig.	Volt-Amps	Voltage Input	Voltage Output	Case *	Overall Size, Inches	Net Each
23-13-030	A	30	95–130	118	4	6 1/16 x 4 x 5 5/16	$25.00*
23-13-060	A	60	95–130	118	4	6 13/16 x 4 x 5 5/16	30.00*
23-22-112	A	120	95–130 x 190–260	118	4	8 x 4 x 5 5/16	38.00*
23-22-125	A	250	95–130 x 190–260	118	4	9 3/16 x 5 3/16 x 7 7/16	52.00*
23-22-150	A	500	95–130 x 190–260	118	4	12 7/16 x 9 x 6 7/16	81.00*
23-23-030	A	30	190–260 x 380–520	118	4	6 1/16 x 4 x 5 5/16	27.00*
23-23-060	A	60	190–260 x 380–520	118	4	6 13/16 x 4 x 5 5/16	32.00*
23-23-112	A	120	190–260 x 380–520	118	4	8 x 4 x 5 5/16	41.00*
23-23-125	A	250	190–260 x 380–520	118	4	10 x 5 3/8 x 7 7/16	56.00*
23-25-210	A	1000	95–130 x 175–235 x 190–260	118 x 236	4	17 15/16 x 9 x 6 7/16	135.00*
23-25-220	A	2000	95–130 x 175–235 x 190–260	118 x 236	4	19 15/16 x 12 3/4 x 10 11/16	245.00*
23-25-230-3	A	3000	95–130 x 175–235 x 190–260	118 x 236	4	21 3/8 x 12 3/4 x 10 11/16	330.00*
23-26-250	B	5000	190–260 x 380–520	118 x 236	5	20 7/8 x 25 13/16 x 10 11/16	515.00*
23-28-275	...	7500	190–260 x 380–520	118 x 236	6	20 9/16 x 38 1/4 x 11 1/16	765.00*

CVN NORMAL-HARMONIC TYPE

Regulate voltage output within ±1% regardless of input voltage variations as great as ±15%. Average 20% total rms harmonic content. Provide regulated voltage for filaments, relays and solenoids. Ideal built-in components. For 60 cps, single phase operation.

20-10-015	C	15	95–130	118	1	5 1/16 x 2 3/8 x 3 1/16	$15.00*
20-11-015	E	15	95–130	118	2	5 1/4 x 3 1/2 x 2 1/4	20.00*
20-14-015	D	15	95–130	118	3	4 1/16 x 2 3/8 x 2 1/16	14.00*
20-14-030	D	30	95–130	118	3	4 5/16 x 2 3/8 x 3 5/16	16.00*
20-13-030	A	30	95–130	118	4	6 x 4 x 5 5/16	20.00*
20-13-060	A	60	95–130	118	4	6 13/16 x 4 x 5 5/16	25.00*
20-14-060	D	60	95–130	118	3	4 13/16 x 3 1/8 x 3 7/8	21.00*
20-14-112	D	120	95–130	118	3	4 13/16 x 3 7/8 x 4 15/16	29.00*
20-13-112	A	120	95–130	118	4	7 3/8 x 4 x 5 5/16	33.00*
20-21-112	A	120	190–260	236	4	7 7/8 x 4 x 5 5/16	33.00*
20-13-115	A	150	95–130	118	4	8 3/8 x 5 3/8 x 7 7/16	40.00*
20-13-125	A	250	95–130	118	4	11 1/16 x 6 13/16 x 6 7/16	49.00*
20-23-125	A	250	190–260 x 380–520	118	4	11 1/8 x 6 13/16 x 6 7/16	49.00*
20-13-150	A	500	95–130	118	4	12 5/16 x 6 13/16 x 6 7/16	77.00*
20-23-150	A	500	190–260 x 380–520	118	4	12 5/16 x 6 13/16 x 6 7/16	77.00*
20-24-150	A	500	190–260 x 380–520	236	4	12 1/2 x 6 13/16 x 6 7/16	77.00*
20-13-210	A	1000	95–130	118	4	15 1/16 x 6 13/16 x 6 7/16	128.00*
20-20-210	A	1000	190–260	118	4	15 1/16 x 6 13/16 x 6 7/16	128.00*
20-25-220	A	2000	95–130 x 175–235 x 190–260	118 x 236	4	20 x 10 1/2 x 10 11/16	232.00*
20-25-230	A	3000	95–130 x 175–235 x 190–260	118 x 236	4	22 x 10 1/2 x 10 11/16	315.00*
20-27-250	A	5000	190–260 x 380–520	118 x 236	4	21 x 14 1/2 x 14 3/8	490.00*
20-26-310	B	10000	190–260 x 380–520	118 x 236	5	21 x 29 7/16 x 14 3/8	925.00*

*Transformer case: 1—Drawn case; 2—Hermetically sealed case; 3—End bell unit with separate capacitor; 4—Housed unit; 5—Duplex housed unit; 6—Triplex housed unit.

CVA PLUG-IN TYPE TV VOLTAGE REGULATOR (FIG. F)

Will provide a nominal output of 115-120 volts on an input of 95-130 volts, stabilizing it to ±3% or less. No wiring necessary—just plug in between set and wall outlet.

Sola No. 72103—For sets with manufacturer's rating of 105 to 170 watts power input. Output capacity, 180 VA. Size, 8 1/16" x 4 13/32" x 7 1/32". Shipping Weight, 20 lbs. Net Each..... **$34.50**

Sola No. 72104—For sets with manufacturer's rating of 165 to 285 watts power input. Output capacity, 300 VA. Size, 8 15/16" x 4 13/32" x 7 1/32". Shipping Weight, 27 lbs. Net Each..... **$37.50**

Sola No. 72107—Specifically for color sets rated 240–375 watts input. Harmonic-free output waveform; 400 VA capacity. Size, 9 15/16" x 4 13/32" x 7 1/32". Wt., 32 lbs. Net Each..... **$55.00**

CVE ELECTRONIC-POWER PLATE-FILAMENT TYPE (FIG. G)

Delivers filament and plate voltages regulated within ±3% or less, with line voltage variations of 100-130 volts. Furnished complete with separate capacitor and capacitor mounting bracket. **No. 7104:** 4 13/32" x 3 1/32" x 3 3/32". Shpg. Wt., 6 lbs. **No. 7106:** 4 13/32" x 3 1/32" x 3 15/32". Shpg. Wt., 8 lbs. **No. 7107:** 7" x 4 1/32" x 4 7/32". Shpg. Wt., 19 lbs.

Sola No.	Input† VDC at Ma	Fil. Wdg., Amps at 6.3 V.	Fil. Wdg., Amps at 5.0 V.	Net Each‡
7104	275 at 50	2.5 CT	2.0	$12.00
7106	385 at 100	3.0 CT	2.0	15.00
7107	380 at 250	4 & 8*	3.0	27.00

*Unregulated.. †To filter.. ‡Quantity Discount: 1–9, none; 10–49, 10%; 50–99, 20%.

CVF ELECTRONIC-POWER FILAMENT TYPE

Sola No.	Fig.	Volt-Amps	Input Volts*	Net Each *
20-01-015	C	15	95-130	$15.00
20-02-015	C	15	95-130	15.00
20-03-015	E	15	95-130	20.00
20-04-015	D	15	95-130	14.00
20-06-015	D	15	95-130	14.00
20-04-030	D	32	95-130x190-260	16.00
20-04-065	D	65	95-130x190-260	20.00
20-04-095	D	95	95-130x190-260	24.00
20-04-116	D	160	95-130x190-260	35.00

*Regulated ±1% output; Nos. 20-01-015, 20-06-015, 6.0 v.; all others, 6.3 v.

ADAPTER KITS (FIG. H)

Convenient input cord and output receptacle for regulators listed under table.

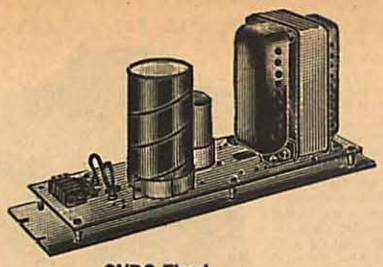
Sola No.	Input Cord	Output	Net Each
999-004*	2-wire	2-wire receptacle	$1.75
999-018*	3-wire	3-wire receptacle	2.50
999-005†	2-wire	2-wire receptacle	1.75
999-019†	3-wire	3-wire receptacle	2.50
999-009‡	2-wire	2-wire receptacle	2.00
999-020‡	3-wire	3-wire receptacle	2.50

*For Nos. 20-13-030, 20-13-060, 20-13-112, 20-21-112, 23-13-030, 23-13-060, 23-22-112, 23-23-030, 23-23-060, and 23-23-112. †For Nos. 20-13-115, 23-22-125, and 23-23-125. ‡For Nos. 20-13-125, 20-13-150, 20-23-125, 20-23-150, 20-24-150, 23-22-150, and 23-25-210.

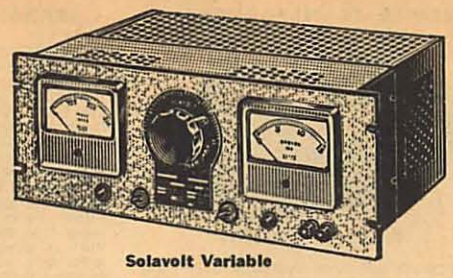
★QUANTITY DISCOUNTS

Quantity	Discount
1–4	None
5–9	10%
10–24	15%

SOLA CONSTANT-VOLTAGE POWER SUPPLIES AND MULTI-TAP TRANSFORMERS



CVDC Fixed



Solavolt Variable



Multi-Tap CV Transformer

SOLA CONSTANT-VOLTAGE DC POWER SUPPLIES

Compact size and low weight in proportion to power output are prime features of Sola's Constant-Voltage DC Power Supply, plus transient overload capacity without oversize components, and good load regulation over entire operating range.

Other important characteristics and features combine to bring users this impressive list of advantages: **1**—Output regulation of ±1% or less with ±15% line voltage variations. **2**—Minimum output voltage change with wide, rapid load changes. **3**—Low input power, with resultant good efficiency. **4**—Ability to withstand high, short-time overloads without damage to components. **5**—High overall economy by eliminating overload capacity needed in other types of power supplies for certain applications. **6**—Low ratio of size and weight to power output. **7**—Freedom from routine adjustment and maintenance problems due to absence of any moving or expendable parts. **8**—Exceedingly low output impedance.

CVDC FIXED OUTPUT

For intermittent variable or pulse loads. Input: 100-130 V, 60 cps. Ripple V rms: 1% of total except *, ½%. 19" panel.

Sola No.	DC Output W	V	A	Reg. †	Ht., In.	D., In.	Shpg., Lbs.	Net Each
281513-1	60	6	10	7%	3½	7⅜	31	$150.00
281514-1	60	12	5	5%	3½	7⅜	26	115.00
281515-1	90	18	5	4%	3½	7⅜	28	120.00
281845	180	12	15	5%	5¼	9¾	50	195.00
281024-1	144	24	6	4%	5¼	9¾	34	145.00
281203	360	24	15	4%	8¾	10	55	250.00
28626	224	28	8	4%	5¼	9¾	48	180.00
281048	192	48	4	2½%	5¼	9¾	37	135.00
281561	480	48	10	2%	5¼	9¾	50	185.00
281125	250	125	2	1½%	5¼	9¾	44	145.00
281150	300	150	2	1½%	5¼	9¾	48	145.00
281200*	200	200	1	2%	5¼	9¾	39	140.00
281250*	250	250	1	2%	5¼	9¾	45	150.00

*½% ripple. †Load Regulation, ½ to full load.

SOLAVOLT VARIABLE OUTPUT

The DC Solavolt is essentially a constant-voltage transformer to which has been added an adjustable transformer, plus appropriate rectifiers and filters. Offers exceedingly fast transient response time; most changes in supply voltage are compensated for in 1.5 cps or less. The full-range DC model is continuously adjustable from zero to maximum rated voltage without step-switching. The limited-range DC model covers a predetermined narrower voltage range, with a lower ripple content. Supplied with panel for standard 19" relay rack mounting. **Input:** 100–130 VAC, 60 cps. **Operating Temperature:** 0–50° C max. ambient.

FULL-RANGE

Regulation: ±1½% line regulation at max. voltage and ½ load, or at reduced voltage and full load; ±1% at max. voltage and full load; ½% to 8% load regulation, ½ to full load. **Size:** 19" w. x 10½" d. behind panel.

Sola No.	Adjust. Output Voltage Range	Rated Load, Amperes: At Max. Volts	Reduced Volts Amps at V	Rms Ripple	Ht., In.	Shpg. Wt., Lbs.	Net Each
285111	0–35	24	24 at 5	1%*	10½	90	$417.00
285112	0–35	7	7 at 5	1%*	5¼	70	263.00
285113	0–60	4	6 at 25	1%*	5¼	70	282.00
285114	0–90	2.8	4 at 30	1%*	5¼	70	270.00

*For 0.20% ripple, change fourth digit in number to 2 (e.g., 285211) and add **$10.00** to price shown.

LIMITED-RANGE

Regulation: ±1% line regulation for input fluctuations of ±15%; ½% to 8% load regulation, ½ to full load. **Size:** 19" w. x 12¼" d. behind panel.

285110	5–35	7	7 at 5	0.10%	7	80	$325.00
285120	25–60	4	6 at 25	0.05%	7	80	325.00
285130	30–90	2.8	4 at 30	0.04%	7	80	295.00
285140	60–180	1.4	2 at 60	0.03%	7	80	295.00

SOLAVOLT CONSTANT-VOLTAGE AC POWER SUPPLY

Adjustable and regulated AC power supply with sinusoidal output designed for use with equipment that requires constant AC voltage from 0–130 volts of undistorted wave-shape. Recommended for operations involving elements which are sensitive to power frequencies harmonically related to the fundamental. Solavolt unit provides voltage regulation of ±1% for line input changes from 100–130 volts, with less than 3% harmonic content at full load. Response time is 1.5 cps or less. One receptacle for fixed, regulated 115 VAC; one for variable regulated 0–130 VAC output, with a pair of jacks. Dual panel meters show voltage and current outputs. Rated at 500 VA; maximum current, 7½ amps. Overall size of rack mounting, 19" w. x 12¾" d. x 7" h. Shpg. Wt., 83 lbs.
Sola No. 23-90-150—Net Each.....**$275.00**

SOLA MULTI-TAP CONSTANT-VOLTAGE TRANSFORMERS

Versatile, flexible output transformer provides a wide range of output voltages for prototyping and experimental use. Can be used as a power source for AC or DC outputs or a combination of both; plus the regulating ability of the familiar Sola transformer. Provides line regulation of ±1% or less with current limiting and isolation from primary voltage. Broad range of regulated output voltages provides immediate available source for breadboarding, prototypes, etc.; saves time and money in inventory. Operates similarly to any tapped multiple output transformer: Taps arranged along one side, so voltages are tapped off from the minimum to maximum-rated voltage in increments of about 10%. **Input:** 105–125 VAC, 60 cps. **Specific output and necessary tap combinations, along with other applications and operating data, available on request; ask for Sola Bulletin CVR-181.**

Sola Number	Rating VA	Range of AC Volts	DC Output: Resistive	Capacitive	Size, Inches W. x D. x H.	Shpg. Wt., Lbs.	Net Ea., 1-4
73-13-040	40	9.3–28.9	3.7 to 12.9 V at 2 A 7.7 to 26.5 V at 1.25 A	3.9 to 14.6 V at 2 A 8.4 to 31.1 V at 1.25 A	3⅛ x 5⅞ x 4¹¹⁄₁₆	6	$21.00
73-13-075	75	10.3–30.0	4.0 to 12.8 V at 4 A 8.6 to 27.6 V at 2 A	4.2 to 14.6 V at 4 A 9.6 to 31.6 V at 2 A	3⅛ x 6⅝ x 4¹¹⁄₁₆	8	25.00
73-13-115	150	10.8–31.4	4.0 to 13.0 V at 8 A 8.8 to 27.8 V at 4 A	4.1 to 14.5 V at 8 A 9.5 to 32.9 V at 4 A	4⅜ x 5⅞ x 6¹³⁄₁₆	13	35.00
73-13-122	225	10.1–30.1	3.6 to 13.0 V at 12 A 8.0 to 27.5 V at 6 A	3.8 to 14.6 V at 12 A 8.8 to 31.5 V at 6 A	4⅜ x 7⅝ x 6¹³⁄₁₆	17	44.00
73-13-130	300	10.2–30.8	3.5 to 13.3 V at 15 A 7.8 to 27.8 V at 8 A	3.6 to 14.6 V at 15 A 8.4 to 31.3 V at 8 A	4⅜ x 8 x 6¹³⁄₁₆	22	52.00
73-13-145	450	9.4–30.2	3.6 to 13.0 V at 22.5 A 8.2 to 27.5 V at 12 A	3.8 to 14.7 V at 22.5 A 8.8 to 31.3 V at 12 A	4⅜ x 8¹¹⁄₁₆ x 6¹³⁄₁₆	30	66.00

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