



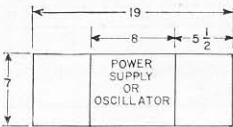
SUMMARY OF OSCILLATOR POWER-SUPPLY CHARACTERISTICS

Type	Applications	DC Plate Supply	Heater Supply	Panel Width
1267-A ¹	Ultimate stability for cw	300 v @ 70 ma, regulated	6.3 v dc @ 1 amp, reg	4"
1201-B ¹	Relative freedom from line transients	300 v @ 70 ma, regulated	6.3 v ac @ 4 amp	*
1269-A ¹ 1203-B ¹	Maximum output and minimum cost	380 v open circuit; 300 v @ 50 ma	6.3 v ac @ 3 amp	4" *
1264-A ^{1,2,3}	100% square wave and pulse a-m	200-300 v @ 50 ma, reg.	6.3 v ac @ 2.1 amp	8"
1263-B ²	Amplitude-regulated cw or 1-kc square-wave output	0-300 v @ 30 ma	6.3 v dc @ 0.5 amp	8"
1216-A ¹	Hetrodyne detector	300 v @ 30 ma	6.3 v ac @ 1 amp	*

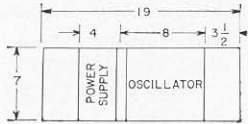
¹Unit Instrument Cabinet.
²May be operated from 400-cycle supply. ²Not for use with TYPE 1208-C Unit Oscillator.
³Requires adaptor cable when used with TYPES 1215-C, 1209-CL, and 1209-C Unit Oscillators (see latest General Radio catalog).

Accessories for Relay-Rack Mount

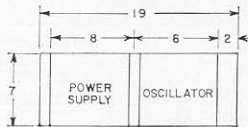
The panel extensions listed below can be readily attached to any of the 7"-high oscillators, power supplies, or oscillator-power supply assemblies to permit mounting in a standard 19" relay rack.



Adaptor Plate Set Type 480-P408 used to rack-mount a single 8"-wide power supply (Type 1263-B or 1264-A) or oscillator.



Adaptor Plate Set Type 480-P412 used to rack-mount an assembly of a 4"-wide power supply (Type 1267-A or 1269-A) and oscillator.



Adaptor Plate Set Type 480-P416 used to rack-mount an assembly of an 8"-wide power supply (Type 1263-B or 1264-A) and oscillator.

Type		Code Number	Price
480-P408	Adaptor Plate Set , for one 8"-wide instrument (7" high)	0480-9648	\$ 8.00
480-P412	Adaptor Plate Set , for assembly of one 8"- and one 4"-wide instrument (7" high)	0480-9642	7.00
480-P416	Adaptor Plate Set , for assembly of two 8"-wide instruments (7" high)	0480-9646	6.00
480-P4U1	Relay-Rack Adaptor Panel , for Type 1201-B or Type 1203-B Power Supply only (7" high)	0480-9984	11.00

THE NEW POWER SUPPLIES

To obtain the ultimate performance from our line of Unit Oscillators, the TYPE 1267-A Regulated Power Supply provides both regulated plate and heater voltages. Regulation is such that effects of line voltage on the oscillator performance are essentially eliminated. As a result, the residual fm of the oscillators

is approximately the same as that obtained with battery operation.

A vacuum-tube series regulator is used for the 300-volt, 70-ma, dc output and a transistor regulator for the 6.3-volt, 1-a, dc output. The vacuum-tube regulator shown in Figure 2 uses a differential-input amplifier to compare the

output voltage against a voltage-reference tube, a cascode amplifier for gain, a cathode follower for maximum bandwidth, and a series power tube for control. This combination results in an 80-db reduction of ripple voltage and a low output impedance over a wide frequency range.

The regulator circuit for the 6.3-volt dc output utilizes three high-gain transistor stages to provide a similar 80-db reduction of ripple voltage and input transients. Current limiting at one ampere and reduction of the small temperature effects of the transistor and Zener reference diode are added bonuses for those who would like to use these versatile supplies for other pur-



Figure 1. View of (left) Type 1267-A Regulated Power Supply and (right) Type 1269-A Power Supply.

poses than operating Unit Oscillators.

The TYPE 1269-A Power Supply is a simple unregulated supply adequate for many uses of the Unit Oscillators. It is similar in electrical characteristics to the TYPE 1203-B Unit Power Supply.

— M. C. HOLTJE

SPECIFICATIONS

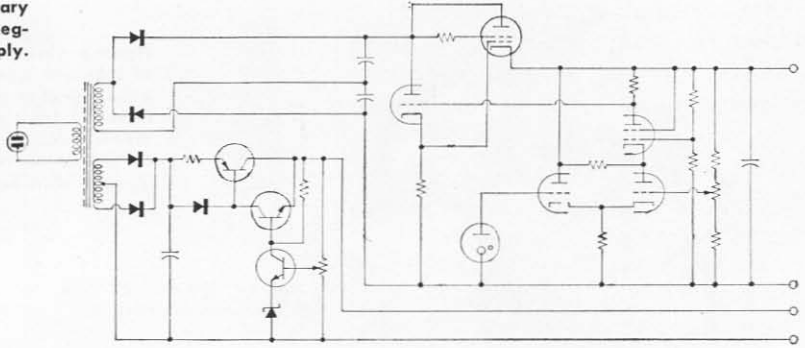
Type	1203-B	1269-A	1201-B	1267-A
Input				
Volts	105 to 125*	105 to 125 or 210 to 250	105 to 125*	105 to 125*
Watts Full Load	50	50	90	90
Line Frequency (cps)	50 to 60; can also be operated from 400-cycle supply of 110 to 125 volts**			
Output (At 115- or 230-volt input)				
DC volts	300 @ 50 ma		300	
ma (max)	50		70	
regulation	No load voltage about 400		±0.25% (combined line & load)	
ripple, rms, at full load (120 cps)	80 mv		1 mv	
DC volts	—		—	
amp (max)	—		—	
regulation			±0.25% (combined line & load)	
ripple, rms, at full load (120 cps)			1 mv	
AC volts	6.3		6.3	
amp (max)	3		4	
Accessories Supplied	Mating plug for output connector, 3-wire line cord.			
Dimensions	inches	4 1/4 x 7 5/8 x 9 1/4	5 x 5 3/4 x 6 1/4	4 1/4 x 7 5/8 x 9 1/4
	mm	130x150x160	130x150x160	110x195x235
Net Weight	pounds	5	5 3/4	6
	kg	2.3	2.7	2.8
Shipping Weight	pounds	6	7	7
	kg	2.8	3.2	3.2

* Add Q18 to type number for 210 to 250 volts (see price table).

** Will operate any vhf or uhf unit oscillator from 400-cycle supply of 105-125 volts.



Figure 2. Elementary schematic of the Regulated Power Supply.



Type		Code Number	Price
1203-B	Unit Power Supply, 105 to 125 volts	1203-9702	\$ 55.00
1203-BQ18	Unit Power Supply, 210 to 250 volts	1203-9818	60.00
1201-B	Unit Regulated Power Supply, 105 to 125 volts	1201-9702	95.00
1201-BQ18	Unit Regulated Power Supply, 210 to 250 volts	1201-9818	105.00
1269-A	Power Supply	1269-9701	70.00
1267-A	Regulated Power Supply, 105 to 125 volts	1267-9701	170.00
1267-AQ18	Regulated Power Supply, 210 to 250 volts	1267-9911	180.00

FLASH-DELAY UNIT SIMPLIFIES MOTION ANALYSIS IN HIGH-SPEED MACHINES

For many years the STROBOTAC[®] electronic stroboscope has been a valuable tool in the development and maintenance of all kinds of rotating and recip-

rocating equipment. Two accessories greatly expand the usefulness of this stroboscope in the study of high-speed motion, the new TYPE 1531-P2 Flash Delay and the TYPE 1536-A Photoelectric Pickoff.¹

¹"Using a PhotoCell Where it Counts," *General Radio Experimenter*, 36, 10, October, 1962.

Figure 1. The Flash Delay and Photoelectric Pickoff in combination with the Strobotac[®] electronic stroboscope. The Flash Delay attaches conveniently to the Strobotac.

