



APPLIED CONCEPTS INC.

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AC7 - USER SELECTABLE OPERATIONAL CHART

Applicable Inverters:

AC7-05-1135
 AC7-12-1136

DRIVE LEVEL	CURRENT (1 TUBE) marms	CURRENT (2 TUBE) marms	DUTY-CYCLE %	VCNTL volts	R-LIMIT kohms
1	0.40	0.30	5%	0.25	190.0
2	0.80	0.60	10%	0.50	90.0
3	1.20	0.90	15%	0.75	56.7
4	1.60	1.20	20%	1.00	40.0
5	2.00	1.50	25%	1.25	30.0
6	2.40	1.80	30%	1.50	23.3
7	2.80	2.10	35%	1.75	18.6
8	3.20	2.40	40%	2.00	15.0
9	3.60	2.70	45%	2.25	12.2
10	4.00	3.00	50%	2.50	10.0
11	4.40	3.30	55%	2.75	8.2
12	4.80	3.60	60%	3.00	6.7
13	5.20	3.90	65%	3.25	5.4
14	5.60	4.20	70%	3.50	4.3
15	6.00	4.50	75%	3.75	3.3
16	6.40	4.80	80%	4.00	2.5
17	6.80	5.10	85%	4.25	1.8
18	7.20	5.40	90%	4.50	1.1
19	7.60	5.70	95%	4.75	0.5
20	8.00	6.00	100%	5.00	0.0

EXTERNAL VOLTAGE CONTROL METHOD

Formula calculating control voltage(VCNTL) for desired output current

FOR 1 TUBE: $VCNTL(\text{volts}) = 5(I_{\text{tube}}/8)$

where I_{tube} is the desired tube current in mA

FOR 2 TUBE: $VCNTL(\text{volts}) = 5(I_{\text{tube}}/6)$

where I_{tube} is the desired tube current in mA

RESISTIVE CONTROL METHOD

Formula calculating (R-LIMIT) for desired output current

FOR 1 TUBE: $R-LIMIT(\text{kohm}) = 10(8-I_{\text{tube}}) / I_{\text{tube}}$

where I_{tube} is the desired tube current in mA

FOR 2 TUBE: $R-LIMIT(\text{kohm}) = 10(6-I_{\text{tube}}) / I_{\text{tube}}$

where I_{tube} is the desired tube current in mA