POWER PACK INSTRUCTIONS

GENERAL INFORMATION

SERIES "M", "MW", & "MA"

INPUT Zero through nameplate rating. Suffix "M" rated at 118 VAC; suffix "MW" rated at 220, 230 and 240 VAC. All operate from 50 Hz to 500 Hz.

OUTPUT Zero to rated output potential can be obtained by varying the input potential from zero to nameplate value. The nameplate current and potential are the maximum safe ratings. User must provide means to limit current and potential if overloads are expected.

RIPPLE Maximum of 1% RMS at 60 Hz, full load. At 400 Hz, approximately 0.2%.

OIL All standard power packs are filled with environmentally safe mineral oil.

WIRING INSTRUCTIONS

1. Connect load not exceeding the rated current to 1 output terminal, marked + or − . During soldering, use care to avoid opening the solder seal buttons (on terminals that have them). Use mini banana plug to connect load to terminals that have a corona sphere.

2. Connect one side of the output, either positive **(+)** or negative **(−)** or some intermediate point along an external bleeder string to the screw stud provided on top of the case. **IF THIS IS NOT DONE, HIGH ELECTROSTATIC POTENTIALS WILL DEVELOP BETWEEN THE CASE AND THE OUTPUT CIRCUIT.** The HV750-152M, HV750-502M and HV1000-502M all have a single output terminal, positive (+) in relation to ground and the remaining terminal is internally connected to the case. For these 3 types, for negative output, specify suffix "MA". **THIS SERIES IS NOT DESIGNED TO DELIVER SIMULTANEOUS POSITIVE AND NEGATIVE OUTPUT VOLTAGES.** For simultaneous dual output voltages, specify suffix "MT".

3. Connect the case to a known earth ground. This connection must be made with the screw stud located on the top of the power pack.

4. Fuse the input of the power pack to prevent an accidental short circuit from disrupting associated equipment on a common line. See max. fuse ratings on reverse side of this sheet.

5. Connect the power source to the input terminals of the power pack. Output voltage may be varied by connecting the input to an autotransformer, such as a Variac type.

6. **POWER PACKS ARE NOT OVERLOAD PROTECTED.** If overloads or surge currents are expected, that might exceed the nameplate ratings, external current limiting must be provided by the user.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

Form WD-18A

WARNING . . . HIGH VOLTAGE

THE VOLTAGE POTENTIALS ENCOUNTERED WITH THE USE OF MANY OF THE ITEMS IN THIS CATALOG MAY BE LETHAL. UTMOST CARE SHOULD BE EXERCISED IN THE USE OF THESE PRODUCTS TO ASSURE THAT THE VOLTAGE OR POWER SOURCE IS DISCONNECTED AND THAT THE DEVICE IS PROPERLY GROUNDED AND SHORTED BEFORE SERVICING THE EQUIPMENT INTO WHICH IT IS INSTALLED. INSTALLATION SHOULD COMPLY WITH ALL FEDERAL, STATE AND LOCAL ELECTRICAL CODE REQUIREMENTS.

Plastic Capacitors, Inc.
2623 N. PULASKI ROAD • CHICAGO, ILLINOIS 60639
AREA 773, 489-2229 • FAX 773, 489-0496

ELECTRICAL PARAMETERS
STANDARD POWER PACKS

PART NUMBER	MAX. OUTPUT VOLTS (KVDC)	MAX. OUTPUT CURRENT (mADC)	APPROX. OUTPUT CAP. (ufd)	INTERNAL BLEEDER (MEGOHMS)	SLO—BLO INPUT FUSING (AMPS)	CIRCUIT
HV10-152M	1	1.5	.60	10	1/16	FWD
HV20-152M	2	1.5	.24	20	1/16	FWD
HV50-I52M	5	1.5	.15	50	1/8	FWD
HV75-152M	7.5	1.5	.035	100	3/16	FWD
HV100-152M	10	1.5	.035	100	1/4	FWD
HV150-152M	15	1.5	.026	150	3/4	FWD
HV200-152M	20	1.5	.02	200	3/4	FWD
HV300-152M	30	1.5	.01	300	1 1/4	FWD
HV500-152M	50	1.5	.007	400	1 1/2	FWD
HV750-152M	75	1.5	.0053	900	2	HWD
HV10-502M	1	5	.65	20	1/10	FWD
HV15-502M	1.5	5	.7	20	1/10	FWD
HV20-502M	2	5	.7	20	2/10	FWD
HV50-502M	5	5	.25	50	1/2	FWD
HV100-502M	10	5	.13	100	1	FWD
HV150-502M	15	5	.09	150	1 1/4	FWD
HV200-502M	20	5	.063	200	2	FWD
HV300-502M	30	5	.043	300	3	FWD
HV500-502M	50	5	.03	500	4	FWD
HV750-502M	75	5	.03	750	6 1/4	FWD
HV1000-502M	100	5	.015	1000	8	FWD
HV10-103M	1	10	2.6	5	2/10	FWB
HV25-103M	2.5	10	1.0	12.5	3/10	FWB
HV50-103M	5	10	.5	25	1	FWB
HV100-103M	10	10	.25	50	2	FWB
HV150-103M	15	10	.1	75	3	FWB
HV250-103M	25	10	.12	125	4	FWB
HV375-103M	37.5	10	.13	187.5	6 1/4	FWB
HV50-153M	5	15	.9	25	1 1/4	FWB
HV100-153M	10	15	.5	50	3	FWB
HV150-153M	15	15	.4	30	4	FWB
HV200-153M	20	15	.25	200	5	FWB

HWD = Half Wave Doubler
FWD = Full Wave Double
FWB = Full Wave Bridge

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ISSUED 4-90

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