



WINPOWER CORPORATION

BULLETIN NO. 4

SUBJECT: LEAD WIRE SIZE FOR PTO ALTERNATOR

DATE: 8-21-79

ENGINEERING TECHNICAL BULLETIN

PTO MODELS	CONT. KW	PHASE	VOLTS	CONT. AMPS	DISTANCE BETWEEN ALTERNATOR AND TRANSFER SWITCH (FEET)						
					10	20	30	40	50	75	100
15/10PTCD	10	1	120/240	42	8	8	8	6	6	4	4
25/15PTCD DD JD LD	15	1	120/240	62	6	6	6	6	4	4	4
	15	3	120/208	52	8	8	6	6	6	4	4
	15	3	120/240	45	8	8	8	6	6	4	4
	15	3	277/480	23	8	8	8	8	8	8	6
30/20PTCD DD JD	20	1	120/240	83	6	6	4	4	2	2	2
	20	3	120/208	69	6	6	6	4	4	4	4
	20	3	120/240	60	6	6	6	6	4	4	4
45/25PTCD DD JD LD	25	1	120/240	104	4	4	4	2	2	2	2
	25	3	120/208	87	4	4	4	2	2	2	2
	25	3	120/240	75	4	4	4	4	4	2	2
	25	3	277/480	38	8	8	8	6	6	4	4
50/30PTCD DD JD	30	1	120/240	125	4	4	2	2	2	2	2
	30	3	120/208	104	4	4	4	2	2	2	2
	30	3	120/240	90	4	4	4	2	2	2	2
80/40PTJD DD	40	3	120/240	120	4	4	2	2	2	2	2
	40	3	120/208	139	4	2	2	2	2	2	2
80/50PTCD	50	1	120/240	208	1	1	1/0	1/0	2/0	2/0	2/0
100/60PTCM DM JM LM	60	1	120/240	250	1/0	1/0	2/0	2/0	3/0	3/0	4/0
	60	3	120/208	208	1	1	1/0	1/0	2/0	2/0	2/0
	60	3	120/240	180	1	1	1/0	1/0	2/0	2/0	2/0
	60	3	277/480	90	4	4	4	2	2	2	2
150/100PTCM DM JM LM	100	1	120/240	417	4/0	4/0	4/0	250*	250*	250*	250
	100	3	120/208	347	3/0	3/0	4/0	4/0	250*	250*	250
	100	3	120/240	301	2/0	3/0	3/0	4/0	4/0	250*	250
	100	3	277/480	150	2	1	1/0	1/0	2/0	2/0	2/0

*MCM

BULLETIN NO. 4 (Page 2)

NOTES:

- (1) All wire size are in AWG.
- (2) Wire size is determined using copper wire 105°C, TEW, Hypalon, UL, CSA approved lead wire.
- (3) Wire sizes are determined based on single insulated copper wire in free air.
- (4) Wire sizes are given as general recommendations. Refer to your local, city, state, federal and/or national electric code for specific requirements.
- (5) For wire type other than copper wire, TEW, Hypalon, refer to National Electric Code 1978, Table 310-16 through 310-19 (Pages 132-135).
- (6) Wire size for 540 and 1000 RPM for similar KW Alternator is same.