

Generator capacity table for MIGHTY PULLER

Model	Output [kW]	Pole [P]	Frequency [Hz]	Rated voltage [V]	Starting torque [%]	Starting current [A]	Rated current [A]	Rated capacity [kVA]	Generator capacity by voltage drop rate [kVA]	
									10 %	20 %
									MA-3G10	0.87
60	200	271	23.5	3.8	1.3	18	8			
WK55X	1	4	50	200	264	24.6	4.8	1.7	19	9
			60	200	236	23.5	4.4	1.5	18	8
MA-2 MA-3G15 MA-5G11	1.5	4	50	200	301	45.1	6.8	2.4	35	16
			60	200	258	42.3	6.2	2.1	33	15
MA-3 MA-5G16 MA-7G11 MA-10G12	2.5	4	50	200	268	67.0	10.6	3.7	52	23
			60	200	227	62.8	10.0	3.5	49	22
MA-25G10 MA-25H40G10	3.7	6	50	200	289	123	16.6	5.8	96	43
			60	200	223	102	15.6	5.4	80	35
MA-5 MA-7G17 MA-10G18 MA-20G13	3.9	4	50	200	344	124	16.2	5.6	97	43
			60	200	275	110	15.0	5.2	86	38
MA-7 MA-25G15 MA-25H40G13	6.1	4	50	200	315	189	25.6	8.9	147	65
			60	200	248	163	23.4	8.1	127	56
MA-10 MA-20G20 MAW-40H10	8.1	4	50	200	290	237	32.4	11.2	185	82
			60	200	217	201	30.2	10.5	157	70
MA-10P	8.1	4/2	50	200	261	218	33.0	11.4	170	76
			60	200	216	192	31.0	10.7	150	67
MAW-50H10	11	4	50	200	229	263	42.0	14.5	205	91.1
			60	200	195	233	40.6	14.1	182	81
MA-20 MAW-40H20 MAW-60H10	15	4	50	200	250	380	56.4	19.5	296	132
			60	200	208	330	53.8	18.6	257	114
MA-20P	15	4/2	50	200	327	415	61.0	21.1	323	144
			60	200	241	375	55.0	19.1	292	130
MW-60H10	15	4	50	200	265	360	53.7	18.6	281	125
			60	200	222	313	52.6	18.2	244	108
MA-25 MA-25H40	18.5	4	50	200	360	590	72.8	25.2	460	204
			60	200	272	500	68.6	23.8	390	173
MA-25P	18.5	4/2	50	200	262	408	82.0	28.4	318	141
			60	200	217	357	72.0	24.9	278	124
MA-35 MA-35H42 MA-35P MA-35PH42	25	8/4	50	200	244	557	108	37.4	434	193
			60	200	208	492	103	35.7	383	170
MA-40 MA-40H42 MA-40P MA-40PH42	28	8/4	50	200	300	699	120	41.6	545	242
			60	200	251	616	114	39.5	480	213
MAW-60H20	30	4	50	200	249	720	110	38.1	561	249
			60	200	214	618	108	37.4	482	214
MW-60H20	30	4	50	200	265	690	109	37.8	538	239
			60	200	223	599	106	36.7	467	207
MA-50 MA-50H44 MA-50P MA-50PH44	37	8/4	50	200	257	1080	170	58.9	842	374
			60	200	213	933	153	53.0	727	323
MA-75 MA-75P	47	8/4	50	400	276	730	111	76.9	1138	506
	55	8/4	60	440	239	691	107	81.5	1185	527

$$P_G = X_d' \times \frac{(100 - \varepsilon)}{\varepsilon} \times \frac{\sqrt{3} \times E \times I_{st}}{1000}$$

P_G : Generator capacity [kVA]
 X_d' : Transient reactance 0.25
 ε : Voltage drop rate [%]
 E : Rated voltage [V]
 I_{st} : Starting current [A]

Note

- Select the generator with 10% of the voltage drop rate basically because the supply voltage of Mighty Puller is within $\pm 10\%$ of the rated value.
- If it is impossible to select the generator within 10% of the voltage drop, select the generator within 20% of the voltage drop.
- If you operate Mighty Puller with the insufficient capacity, the following may occur.
 - ① Mighty Puller will not lift up the load because the starting torque decreases.
 - ② The value of the rated current will increase.
 - ③ The temperature will rise.
- If you operate Mighty Puller with the inverter control system, select the generator that has more than ten times capacity as the motor capacity.