MQ Power KVA/KW Amperage Chart

Generator Model	Prime Output		Amps at 3 phase			Amps at 1 Phase				Main Line CB Rating	OCR*** Trip Set Point	MSKVA @ 30%
						4-Wire**		240/120 Volt Zig Zag				
	KVA	KW	240V	480V	600V*	120V	240V	120V	240V	Amps	Amps	V Dip
DCA25	25	20	60	30	24	56 x 3	28 x 3	60 x 2	60	60	30	65
DCA40	36	28.8	86	43	34	82 x 3	41 x 3	89 x 2	89	110	43	89
DCA45	45	36	108	54	43	100 x 3	50 x 3	108 x 2	108	125	54	100
DCA70	70	56	168	84	67	155 x 3	78 x 3	168 x 2	168	175	84	170
DCA125	125	100	300	150	120	278 x 3	139 x 3	301 x 2	301	300	152	410
DCA150	150	120	361	180	144	333 x 3	167 x 3	361 x 2	361	400	180	500
DCA180	180	144	433	216	173	400 x 3	200 x 3			500	216	550
DCA220	220	176	529	265	211	488 x 3	244 x 3			600	265	700
DCA300	300	240	722	361	288	666 x 3	333 x 3			800	361	800
DCA400	400	320	962	481	385	888 x 3	444 x 3			1000	481	1000
DCA600	600	480	1443	721	577	1333 x 3	667 x 3			1600	720	1950

Amperage listed shows maximum for breaker size

* 600V available only when used with transformer

** Amperage Per Phase at 208/120 Volt 3 Phase or 416/240 Volt 3 Phase

*** Open Circuit Relay trip set point 480 volt

Useful Electrical Formulas

Alternator Data

	Single Phase	Three Phase
To Find kW	$\frac{\text{Volts x Amps x PF}}{1000}$	$\frac{\text{Volts x Amps x 1.732 x PF}}{1000}$
To Find kVA	$\frac{\text{Volts x Amps}}{1000}$	$\frac{\text{Volts x Amps X 1.732}}{1000}$
To Find Amps		
When kW is known	$\frac{\text{kW x 1000}}{\text{Volts x PF}}$	$\frac{\text{kX x 1000}}{\text{1.732 x Volts x PF}}$
When kVA is known	$\frac{\text{kVA x 1000}}{\text{Volts}}$	$\frac{\text{kVA x 1000}}{\text{1.732 x Volts}}$
Amps 480 V	kW x 1.5	
Amps 240 V	kW x 3.0	
Amps 208 V	kW x 3.5	

Motor Starting

MSKVA = Motor HP x NEMA Code

Running kW of Motor = $\frac{\text{Hp x 0.746}}{\text{Efficiency of Motor}}$

Running Amperage = $\frac{\text{Hp x 0.746}}{\text{V x PF(0.8) x 1.732 x Eff}}$

Motor NEMA Code	KVA Per HP
D	4.0 -4.49
E	4.5 - 4.99
F	5.0 - 5.59
G	5.6 - 6.29
H	6.3 - 7.09
J	7.1 - 7.99
K	8.0 - 8.99

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MQ Power Whisperwatt Fuel Consumption and Run Time

Models	Fuel Capacity Gallons			Fuel Consumption GPH/ Run Time								DEF
				Full Load		3/4 Load		1/2 Load		1/4 Load		Capacity
	Gen	TRLR	Total	gph	hrs	gph	hrs	gph	hrs	gph	hrs	gal.
DCA25SSIU4F - TRLR25US2	41.7	NA	41.7	1.62	25	1.26	33	0.94	44	0.67	62	NA
DCA40SSKU4F2 - TRLR45	67.4	NA	67.4	2.3	29	1.8	37	1.3	52	0.8	84	NA
DCA45SSIU4F - TRLR45	79.2	NA	79.2	2.93	27	2.2	36	1.6	49	1.04	76	NA
DCA70SSIU4F - TRLR70US	103	NA	103	4.4	23	3.5	29	2.6	39	1.7	60	7.4
DCA70SSJU4F - TRLR75XF	20	100	120	4.6	26	3.6	33	2.7	44	2.0	60	7.98
DCA125SSIU4F - TRLR125US	169	NA	169	7.1	24	5.6	30	4.1	41	2.6	65	7.4
DCA150SSJU4F3 - TRLR180EV	319	NA	319	8.9	36	7.2	44	5.4	59	3.9	82	29.8
DCA180SSJU4F3 - TRLR180EV	319	NA	319	10.1	32	7.8	41	5.8	55	4.0	80	29.8
DCA220SSJU4F3 - TRLR220EV	319	NA	319	12	27	9.4	34	6.9	53	4.6	69	29.8
DCA300SSJU4F3 - TRLR300EV	430	NA	430	16.7	26	12.5	34	8.9	48	5.8	74	29.8
DCA400SSI4F3 - TRLR400XF3	55	350	405	22.5	18	17.3	23	12.2	33	7.7	52	14.8
DCA600SSV4F3 - TRLR600XF	129	1000	1129	33.1	34	24.2	46	17.3	65	10.5	107	84.5

Note- ASTM-D975-No.1 & No.2-D. ULSD Fuel Only
DEF Consumption is 3% to 5% of fuel consumption.

Models	Dry Weight Lbs.			Wet Weight Lbs.			Trailer Mounted Dimensions In. (Gen & Trailer Only)			Single Point Lift
	Gen	TRLR	Total	Gen	TRLR	Total	Length	Width	Height	Max. Capacity-lbs
DCA25SSIU4F - TRLR25US2	1,797	394	2,191	2,138	394	2,532	105.7	56	70.5	5,150
DCA40SSKU4F2 - TRLR45	2,205	1,020	3,225	2,735	1,020	3,755	148	65.5	76.5	5,150
DCA45SSIU4F - TRLR45	2,337	1,020	3,357	2,976	1,020	3,996	148	65.5	84	5,150
DCA70SSIU4F - TRLR70US	3,329	1,050	4,379	4,211	1,050	5,261	169.5	72.5	89	6,960
DCA70SSJU4F - TRLR75XF2	3,329	1,300	4,629	4,211	2,010	6,221	151.3	69.3	83.8	6,960
DCA125SSIU4F - TRLR125US	5,291	1,490	6,781	6,702	1,490	8,192	181	79.5	98	14,050
DCA150SSJU4F3 - TRLR180EV	8,201	2,560	10,761	10,869	2,560	13,429	213	89	114	16,500
DCA180SSJU4F3 - TRLR180EV	8,532	2,560	11,092	11,266	2,560	13,826	213	89	114	16,500
DCA220SSJU4F3 - TRLR220EV	8,532	2,560	11,092	11,111	2,560	13,671	213	89	114	16,500
DCA300SSJU4F3 - TRLR300EV	11,220	2,920	14,140	15,010	2,920	17,930	223	99.5	131.5	19,000
DCA400SSI4F3 - TRLR400XF3	12,280	4,080	16,360	13,184	6,565	19,749	264	94	117	21,000
DCA600SSV4F3 - TRLR600ZBP	16,373	5,878	22,251	17,662	10,144	27,806	410	102	148	25,000