MQ Power KVA/KW Amperage Chart

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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	KVA
NEMA Code	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

MQ Sales Department 800 421 1244
MQ Power Technical Support 800 835-2551
MQ Parts Department 800 421 1244

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MQ Power Whisperwatt Fuel Consumption and Run Time

Models	Fuel Capacity Gallons		
	Gen	TRLR	Total
DCA25SSIU4F - TRLR25US2	41.7	NA	41.7
DCA40SSKU4F2 - TRLR45	67.4	NA	67.4
DCA45SSIU4F - TRLR45	79.2	NA	79.2
DCA70SSIU4F - TRLR70US	103	NA	103
DCA70SSJU4F - TRLR75XF	20	100	120
DCA125SSIU4F - TRLR125US	169	NA	169
DCA150SSJU4F3 - TRLR180EV	319	NA	319
DCA180SSJU4F3 - TRLR180EV	319	NA	319
DCA220SSJU4F3 - TRLR220EV	319	NA	319
DCA300SSJU4F3 - TRLR300EV	430	NA	430
DCA400SSI4F3 - TRLR400XF3	55	350	405
DCA600SSV4F3 - TRLR600XFBP3	129	600	729

Fuel Consumption GPH/ Run Time							
Full Load		3/4 Load		1/2 Load		1/4 Load	
gph	hrs	gph	hrs	gph	hrs	gph	hrs
1.62	25	1.26	33	0.94	44	0.67	62
2.3	29	1.8	37	1.3	52	0.8	84
2.93	27	2.2	36	1.6	49	1.04	76
4.4	23	3.5	29	2.6	39	1.7	60
4.6	26	3.6	33	2.7	44	2.0	60
7.1	24	5.6	30	4.1	41	2.6	65
8.9	36	7.2	44	5.4	59	3.9	82
10.1	32	7.8	41	5.8	55	4.0	80
12	27	9.4	34	6.9	53	4.6	69
16.7	26	12.5	34	8.9	48	5.8	74
22.5	18	17.3	23	12.2	33	7.7	52
33.1	34	24.2	46	17.3	65	10.5	107

DEF
Capacity
gal.
NA
NA
NA
7.4
7.98
7.4
29.8
29.8
29.8
29.8
14.8
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.		
	Gen	TRLR	Total
DCA25SSIU4F - TRLR25US2	1,797	394	2,191
DCA40SSKU4F2 - TRLR45	2,205	1,020	3,225
DCA45SSIU4F - TRLR45	2,337	1,020	3,357
DCA70SSIU4F - TRLR70US	3,329	1,050	4,379
DCA70SSJU4F - TRLR75XF2	3,329	1,300	4,629
DCA125SSIU4F - TRLR125US	5,291	1,490	6,781
DCA150SSJU4F3 - TRLR180EV	8,201	2,560	10,761
DCA180SSJU4F3 - TRLR180EV	8,532	2,560	11,092
DCA220SSJU4F3 - TRLR220EV	8,532	2,560	11,092
DCA300SSJU4F3 - TRLR300EV	11,220	2,920	14,140
DCA400SSI4F3 - TRLR400XF3	12,280	4,080	16,360
DCA600SSV4F3 - TRLR600XFBP3	17,574	7,238	24,812

Wet Weight Lbs.		
Gen	TRLR	Total
2,138	394	2,532
2,735	1,020	3,755
2,976	1,020	3,996
4,211	1,050	5,261
4,211	2,010	6,221
6,702	1,490	8,192
10,869	2,560	13,429
11,266	2,560	13,826
11,111	2,560	13,671
15,010	2,920	17,930
13,184	6,565	19,749
19,117	10,838	29,955

Trailer Mounted Dimensions In. (Gen & Trailer Only)		
Length	Width	Height
105.7	56	70.5
148	65.5	76.5
148	65.5	84
169.5	72.5	89
151.3	69.3	83.8
181	79.5	98
213	89	114
213	89	114
213	89	114
223	99.5	131.5
264	94	117
410	102	148

Single Point Lift
Max. Capacity-lbs
5,150
5,150
5,150
6,960
6,960
14,050
16,500
16,500
16,500
19,000
21,000
25,000