

# MQ Power KVA/KW Amperage Chart

Generator Model
DCA25
DCA40
DCA45
DCA70
DCA125
DCA150
DCA180
DCA220
DCA300
DCA400
DCA600

Prime Output	
KVA	KW
25	20
36	28.8
45	36
70	56
125	100
150	120
180	144
220	176
300	240
400	320
600	480

Amps at 3 phase		
240V	480V	600V*
60	30	24
86	43	34
108	54	43
168	84	67
300	150	120
361	180	144
433	216	173
529	265	211
722	361	288
962	481	385
1443	721	577

Amps at 1 Phase			
4-Wire**		240/120 Volt Zig Zag	
120V	240V	120V	240V
56 x 3	28 x 3	60 x 2	60
82 x 3	41 x 3	89 x 2	89
100 x 3	50 x 3	108 x 2	108
155 x 3	78 x 3	168 x 2	168
278 x 3	139 x 3	301 x 2	301
333 x 3	167 x 3	361 x 2	361
400 x 3	200 x 3		
488 x 3	244 x 3		
666 x 3	333 x 3		
888 x 3	444 x 3		
1333 x 3	667 x 3		

Main Line CB Rating	OCR*** Trip Set Point	MSKVA @ 30% V Dip
60	30	65
110	43	89
125	54	100
175	84	170
300	152	410
400	180	500
500	216	550
600	265	700
800	361	800
1000	481	1000
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	$\frac{\text{Volts} \times \text{Amps} \times \text{PF}}{1000}$	$\frac{\text{Volts} \times \text{Amps} \times 1.732 \times \text{PF}}{1000}$
To Find kVA	$\frac{\text{Volts} \times \text{Amps}}{1000}$	$\frac{\text{Volts} \times \text{Amps} \times 1.732}{1000}$
To Find Amps		
When kW is known	$\frac{\text{kW} \times 1000}{\text{Volts} \times \text{PF}}$	$\frac{\text{kX} \times 1000}{1.732 \times \text{Volts} \times \text{PF}}$
When kVA is known	$\frac{\text{kVA} \times 1000}{\text{Volts}}$	$\frac{\text{kVA} \times 1000}{1.732 \times \text{Volts}}$
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  
 $\frac{\text{Hp} \times 0.746}{\text{Efficiency of Motor}}$

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

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		
	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 - TRLR600XF	129	1000	1129

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 - TRLR600ZBP	16,373	5,878	22,251

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
17,662	10,144	27,806

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