

## MQ Power Whisperwatt Fuel Consumption and Run Time

MODEL	Fuel Capacity Gallons			Fuel Consumption GPH/ Run Time								DEF Capacity (Gallons)
	GEN	TRLR	TOTAL	Full Load		3/4 Load		1/2 Load		1/4 Load		
				gph	hrs	gph	hrs	gph	hrs	gph	hrs	
DCA 25SSIU4F - TRLR 25	41.7	NA	41.7	1.62	25	1.26	33	0.94	44	0.67	62	NA
DCA 45SSIU4F - TRLR 45	79.2	NA	79.2	2.93	27	2.2	36	1.6	49	1.04	76	NA
DCA 70SSIU4F - TRLR 70US	103	NA	103	4.4	23	3.5	29	2.6	39	1.7	60	7.4
DCA 125SSIU4F - TRLR 125US	169	NA	169	7.11	24	5.6	30	4.1	41	2.6	65	7.4
DCA 150SSJU4F - TRLR 180XF	69	210	279	8.4	33	6.5	43	4.9	57	3.2	87	14.5
DCA 220SSJU4F - TRLR 220XF	69	300	369	12.5	29	9.7	38	6.9	53	4.4	84	14.5
DCA 300SSJU4F - TRLR 300XF	100	300	400	17.2	23	12.4	32	9.1	44	5.5	72	14.5
DCA 400SSI4F - TRLR 400XF	55	350	405	22.5	18	17.3	23	12.2	33	7.7	52	14.8
DCA 600SSV2 - TRLR 600XF	129	1000	1129	33.1	34	24.2	46	17.3	65	10.5	107	NA
DCA 800SSK2 - TRLR 800XF	129	1250	1379	41.3	33	30.8	45	22.6	61	14.5	95	NA

**NOTE 1: Fuel is ASTM #1 Ultra Low Sulfur Diesel**

**NOTE 2: DEF Consumption is 2% to 3 % of fuel consumption.**

MODEL	Dry Weight Lbs.		
	GEN	TRLR	TOTAL
DCA 25SSIU4F - TRLR 25	1,797	406	2,203
DCA 45SSIU4F - TRLR 45	2,337	1,056	3,393
DCA 70SSIU4F - TRLR 70US	3,329	960	4,289
DCA 125SSIU4F - TRLR 125US	5,291	1,719	7,010
DCA 150SSJU4F - TRLR 180XF	6,615	2,548	9,163
DCA 220SSJU4F - TRLR 220XF	7,695	3,390	11,085
DCA 300SSJU4F - TRLR 300XF	9,658	3,760	13,418
DCA 400SSI4F - TRLR 400XF	12,280	4,280	16,560
DCA 600SSV2 - TRLR 600XF	16,373	9,740	26,077
DCA 800SSK2 - TRLR 800XF	23,634	9,740	33,374

Wet Weight Lbs.		
GEN	TRLR	TOTAL
2,138	406	2,544
2,976	1,056	4,032
4,211	960	5,171
6,702	1,719	8,421
7,497	4,039	11,536
8,489	5,520	14,009
10,912	5,893	16,805
13,184	6,765	19,949
17,662	14,669	32,221
25,308	14,665	39,973

Dimensions In.		
Length	Width	Height
104.5	56	67
148	65.5	84
169.5	72.5	89
181	79.5	98
203	84.5	96
209	87.5	98
234	96	108
264	94	117
410	102	148
410	102	152

Single Point Lift Max. Capacity-lbs
5,150
5,150
6,960
14,050
14,050
14,050
16,500
16,500
25,000
30,000

# MQ Power KVA/KW Amperage Chart

GENERATOR MODEL	PRIME POWER OUTPUT RATING		Amps at 3-Phase - 0.8 PF		Amps at 1-Phase - 1.0 PF				Main Line CB Rating AMPS	OCR** Trip Set AMPS	MSKVA @ 30% VDIP
	KVA	KW	240V	480V	4-Wire*		240/120 Volt Zig Zag				
					120V	240V	120V	240V			
DCA 25	25	20	60	30	56 x 3	28 x 3	60 x 2	60	60	30	65
DCA 40	40	30	89	44	82 x 3	41 x 3	89 x 2	89	110	43	89
DCA 45	45	36	108	54	100 x 3	50 x 3	108 x 2	108	125	54	100
DCA 70	70	56	168	84	155 x 3	78 x 3	168 x 2	168	175	84	170
DCA 125	125	100	300	150	278 x 3	139 x 3	301 x 2	301	300	152	410
DCA 150	150	120	361	180	333 x 3	167 x 3	361 x 2	361	400	180	500
DCA 180	180	144	433	216	400 x 3	200 x 3			500	216	550
DCA 220	220	176	529	265	488 x 3	244 x 3			600	265	700
DCA 300	300	240	722	361	666 x 6	333 x 3			800	361	800
DCA 400	400	320	962	481	888 x 3	444 x 3			1000	481	1000
DCA 600	600	480	1443	721	1333 x 3	667 x 3			1600	720	1950
DCA 800	800	640	1924	962	1778 x 3	889 x 3			2500	960	2400

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

\*\* Open Circuit Relay trip set point 480 volt

\* Amperage listed shows maximum for breaker size

### Useful Electrical Formulas

To Find	Single Phase	Three Phase
KW	$\frac{\text{Volts} \times \text{Amps}}{1000}$	$\frac{\text{Volts} \times \text{Amps} \times 1.732 \times \text{PF}(0.8)}{1000}$
KVA	$\frac{\text{Volts} \times \text{Amps}}{1000}$	$\frac{\text{Volts} \times \text{Amps} \times 1.732}{1000}$

### Motor Starting

MSKVA = Motor HP x NEMA Code

Without NEMA Code using MQ Power Gens

HP X 2 = Minimum KVA of

MQ Power Generator needed to start

NEMA CODE	KVA PER MOTOR 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

Running Kw of Motor

$$\frac{\text{Hp} \times 0.746}{\text{Efficiency of Motor}}$$

Use 0.85 when unknown

Running Amperage

$$\frac{\text{Hp} \times 0.746}{\text{V} \times \text{PF}(0.8) \times 1.732 \times \text{Eff} (0.85)}$$

Amps 480 V      kW x 1.5  
 Amps 240 V      kW x 3.0  
 Amps 208 V      kW x 3.5

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