

# GENERATOR SET DATA SHEET



**Model:** DCA-800SSK  
**Fuel Type:** Diesel  
**Engine Type:** Komatsu SA12V140

		60 Hertz								50 Hertz							
		Standby				Prime				Standby				Prime			
<b>Ratings</b>	KW	700				640				616				560			
	KVA	875				800				770				700			
<b>Fuel Consumption</b>	Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
	US gph	15.5	24.8	35.0	47.6	14.5	23.1	31.7	43.1	12.0	20.6	29.6	39.1	11.3	19.0	26.9	35.7
	L/hr	58.5	94.0	132.5	180.0	54.9	87.6	120.0	163.0	45.5	78.0	112.0	148.0	42.7	71.8	102.0	135.0

	Standby		Prime		Standby		Prime		Standby		Prime	
<b>Fuel Flow</b>												
Maximum Fuel Flow	55	US gph	51	209	L/hr	191	44	US gph	41	168	L/hr	156
Operating Fuel Supply Press		psi			kPa			psi			kPa	
Maximum Inlet Restriction	0.4	in. Hg	0.4	9.80	mm Hg	9.8	0.4	in. Hg	0.4	9.8	mm Hg	9.8
Maximum Return Restriction	3.9	in. Hg	3.9	98.0	mm Hg	98.0	3.9	in. Hg	3.9	98.0	mm Hg	98.0
<b>Cooling</b>												
Fan Load	35	HP	35	26	kW	26	23	HP	23	17	kW	17
Coolant Capacity (with radiator)	44.9	US Gal	44.9	170	L	170	44.9	US Gal	44.9	170	L	170
Coolant Flow Rate	246	Gal/Min	246	930	L/Min	930	201	Gal/Min	201	760	L/Min	760
Heat Rejection to Coolant	24928	Btu/Min	22937	26	MJ/Min	24	19620	Btu/Min	18482	21	MJ/Min	20
Heat Radiated to Room	5545	Btu/Min	5090	6	MJ/Min	5	4360	Btu/Min	4104	5	MJ/Min	4
Maximum Coolant Friction Head	5.0	psi	5.0	34.4	kPa	34.4	5.0	psi	5.0	34.4	kPa	34.4
Maximum Coolant Static Head	45	ft	45	137	m	137	45	ft	45	137	m	137
<b>Air</b>												
Combustion Air	2496	cfm	2009	71	m <sup>3</sup> /min	57	1886	cfm	1525	53	m <sup>3</sup> /min	43
Maximum Air Cleaner Restriction	30	in. H <sub>2</sub> O	30	7	kPa	7	30	in. H <sub>2</sub> O	30	7	kPa	7
Alternator Cooling Air	3023	cfm	3023	86	m <sup>3</sup> /min	86	2518	cfm	2518	71	m <sup>3</sup> /min	71
Radiator Cooling air	43431	scfm	43431	1230	m <sup>3</sup> /min	1230	35663	scfm	35663	1010	m <sup>3</sup> /min	1010
Minimum Air Opening to Room	40	sq. ft	40	3.7	sq. m	3.7	40	sq. ft	40	3.7	sq. m	3.7
Minimum Discharge Opening	33	sq. ft	33	3.1	sq. m	3.1	33	sq. ft	33	3.1	sq. m	3.1
Max. Static Restriction	0.5	in. H <sub>2</sub> O	0.5	125	Pa	125	0.5	in. H <sub>2</sub> O	0.5	125	Pa	125
<b>Exhaust</b>												
Gas Flow (Full Load)	6250	cfm	5049	177	m <sup>3</sup> /min	143	4732	cfm	3849	134	m <sup>3</sup> /min	109
Gas Temperature	874	°F	781	468	°C	416	934	°F	874	501	°C	468
Maximum Back Pressure	40	in. H <sub>2</sub> O	40	10	kPa	10	40	in. H <sub>2</sub> O	40	10	kPa	10
<b>Engine</b>	KOMATSU											
Engine Model	SA12V140E											
Aspiration	Turbocharged, Aftercooled											