

# GENERAC

## OPERATING DATA

	STANDBY		PRIME	
	SG085		SG085	
GENERATOR OUTPUT VOLTAGE/KW-60Hz	N.G.	L.P.	N.G.	L.P.
120/240V, 1-phase, 1.0 pf	85 KW	85 KW	64 KW	64 KW
120/208V, 3-phase, 0.8 pf	85 KW	85 KW	64 KW	64 KW
120/240V, 3-phase, 0.8 pf	85 KW	85 KW	64 KW	64 KW
277/480V, 3-phase, 0.8 pf	85 KW	85 KW	64 KW	64 KW
600V, 3-phase, 0.8 pf	85 KW	85 KW	64 KW	64 KW
	NOTE: Consult your Generac dealer for additional voltages.			
GENERATOR OUTPUT VOLTAGE/KVA-50Hz	N.G.	L.P.	N.G.	L.P.
110/220V, 1-phase, 1.0 pf	85 KVA	85 KVA	64 KVA	64 KVA
115/200V, 3-phase, 0.8 pf	85 KVA	85 KVA	64 KVA	64 KVA
100/200V, 3-phase, 0.8 pf	85 KVA	85 KVA	64 KVA	64 KVA
231/400V, 3-phase, 0.8 pf	85 KVA	85 KVA	64 KVA	64 KVA
480V, 3-phase, 0.8 pf	85 KVA	85 KVA	64 KVA	64 KVA
	NOTE: Consult your Generac dealer for additional voltages.			
MOTOR STARTING				
Maximum at 35% instantaneous voltage dip with standard alternator—50/60 Hz	<b>240V</b>	<b>480V</b>	<b>240V</b>	<b>480V</b>
with optional alternator—50/60 Hz	175/210 KVA	211/254 KVA	175/210 KVA	211/254 KVA
	654/785 KVA	910/1092 KVA	654/785 KVA	910/1092 KVA
FUEL	N.G.	L.P.	N.G.	L.P.
Fuel consumption—60 Hz—100% Load				
ft. <sup>3</sup> (gal.)/hr.	1320	526	1077	431
m <sup>3</sup> (lit.)/hr.	37.5	15.0	30.5	12.2
Fuel consumption—50 Hz—100% Load				
ft. <sup>3</sup> (gal.)/hr.	1100	440	870	348
m <sup>3</sup> (lit.)/hr.	31.2	12.4	24.8	9.85
COOLING				
Coolant capacity	System	19 lit. (5 US gal.)	19 lit. (5 US gal.)	
	Engine	8 lit. (2 US gal.)	8 lit. (2 US gal.)	
	Radiator	11 lit. (3 US gal.)	11 lit. (3 US gal.)	
Coolant flow/min.	60 Hz	189 lit. (50 US gal.)	189 lit. (50 US gal.)	
	50 Hz	157 lit. (42 US gal.)	157 lit. (42 US gal.)	
Heat rejection to coolant		400,000 BTU/hr.	355,000 BTU/hr.	
Inlet air	60 Hz	250 m <sup>3</sup> /min. (8800 cfm)	250 m <sup>3</sup> /min. (8800 cfm)	
	50 Hz	208 m <sup>3</sup> /min. (7330 cfm)	208 m <sup>3</sup> /min. (7330 cfm)	
Max. inlet air temperature		110°F	110°F	
COMBUSTION AIR REQUIREMENTS				
Flow at rated power	60 Hz	8 m <sup>3</sup> /min. (284 cfm)	7.2 m <sup>3</sup> /min. (255 cfm)	
	50 Hz	8 m <sup>3</sup> /min. (284 cfm)	7.2 m <sup>3</sup> /min. (255 cfm)	
EXHAUST				
Exhaust flow at rated output	60 Hz	23.5 m <sup>3</sup> /min. (833 cfm)	21.5 m <sup>3</sup> /min. (762 cfm)	
	50 Hz	23.5 m <sup>3</sup> /min. (833 cfm)	21.5 m <sup>3</sup> /min. (762 cfm)	
Maximum recommended back pressure		5.0 Kpa (1.5" Hg)	5.0 Kpa (1.5" Hg)	
Exhaust temperature at rated output		700°C (1300°F)	676°C (1250°F)	
Exhaust outlet size		(2) - 2.5" N.P.T. (female)	(2) - 2.5" N.P.T. (female)	
ENGINE				
Rated RPM	60 Hz	2300	2300	
	50 Hz	2300	2300	
HP at rated KW	60 Hz	128	112	
	50 Hz	103	94	
Piston speed	60 Hz	496 m/min. (1629 ft./min.)	496 m/min. (1629 ft./min.)	
	50 Hz	496 m/min. (1629 ft./min.)	496 m/min. (1629 ft./min.)	
BMEP	60 Hz	97	85	
	50 Hz	93	78	
DERATION FACTORS				
Temperature				
5% for every 10°C above		43°C	43°C	
2.77% for every 10°F above		110°F	110°F	
Altitude				
1.1% for every 100 m above		150 m	150 m	
3.5% for every 1000 ft. above		500 ft.	500 ft.	