» Generator set data sheet





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Spec sheet:	SS10-CPGK
Noise data sheet (Open/enclosed):	ND50-OS550 / ND50-CS550
Airflow data sheet:	AF50-550
Derate data sheet (Open/enclosed):	DD50-OS550 / DD50-CS550
Transient data sheet:	TD50-550

	Standby	Standby			Prime			
Fuel consumption	kVA (kW)	kVA (kW)			kVA (kW)			
Ratings	440 (352)	440 (352)			400 (320)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	5.6	11.0	15.8	21.5	5.3	8.8	13.6	17.1
L/hr	26	50	72	98	24	40	62	78

Engine	Standby rating	Prime rating		
Engine manufacturer	Cummins			
Engine model	NTA855 G7			
Configuration	4 Cycle; In-line; 6 Cylinde	r Diesel		
Aspiration	Turbocharged and Afterco	ooled		
Gross engine power output, kWm	391	352		
BMEP at set rated load, kPa	2234	1988		
Bore, mm	140			
Stroke, mm	152			
Rated speed, rpm	1500			
Piston speed, m/s	7.6			
Compression ratio	0.584027778			
Lube oil capacity, L	34.1			
Overspeed limit, rpm	1800 ±50			
Regenerative power, kW	30			
Governor type	Electronic			
Starting voltage	24 Volts DC			
Fuel flow				
Maximum fuel flow, L/hr	372			
Maximum fuel inlet restriction, mm Hg	152			
Maximum fuel inlet temperature (°C)	70	70		
Air				
Combustion air, m <sup>3</sup> /min	31.60	28.50		
Maximum air cleaner restriction, kPa	6.2			

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Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m³/min	84.3	78
Exhaust gas temperature, C	553	525
Maximum exhaust back pressure, kPa	10.2	

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### Standard set-mounted radiator cooling

orandara ser mounted radiator ocoming			
Ambient design, °C	50		
Fan load, KW <sub>m</sub>	8		
Coolant capacity (with radiator), L	45		
Cooling system air flow, m3/sec @ 12.7mmH2O	7.5		
Total heat rejection, BTU/min	15128	13615	
Maximum cooling air flow static restriction mmH2O	19.1		

## Open set derating factors kVA (kW)

Note: Standard open genset options running at 400V, 150m above sea level. For enclosed product derates, please refer to datasheet - DD50-CS550.

	27°C	40°C	45°C	50°C	55°C
Standby	440 (352)	440 (352)	440 (352)	436.5 (349.2)	405.8 (324.6)
Prime	400 (320)	400 (320)	400 (320)	396.8 (317.4)	365 (292)

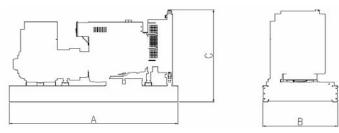
Weights*	Open	Enclosed
Unit dry weight kgs	3493	5041
Unit wet weight kgs	3683	5818

\* Weights represent a set with standard features. See outline drawing for weights of other configurations

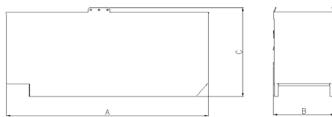
Dimensions	Length	Width	Height
Standard open set dimensions	3549	1100	2115
Enclosed set standard dimensions	5110	1563	2447

### **Genset outline**

### Open set



#### Enclosed set



Outlines are for illustrative purposes only. Please refer to the genset outline drawing for an exact representation of this model.

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### **Alternator data**

Feature code	Connection <sup>1</sup>	Temp rise degrees C	Duty <sup>2</sup>	Alternator	Voltage
B680	Wye, 3 Phase	150/125C	S/P	HC4F	380-415V

### **Ratings definitions**

Emergency Standby Power (ESP)	Limited-Time running Power	Prime Power (PRP):	Base Load (Continuous) Power
Applicable for supplying power to	Applicable for supplying power to a	Applicable for supplying power to	Applicable for supplying power
varying electrical load for the	constant electrical load for limited	varying electrical load for unlimited	continuously to a constant electrical
duration of power interruption of a	hours. Limited Time Running	hours. Prime Power (PRP) is in	load for unlimited hours.
reliable utility source. Emergency	Power (LTP) is in accordance with	accordance with ISO 8528. Ten	Continuous Power (COP) in
Standby Power (ESP) is in	ISO 8528.	percent overload capability is	accordance with ISO 8528, ISO
accordance with ISO 8528. Fuel		available in accordance with ISO	3046, AS 2789, DIN 6271 and BS
Stop power in accordance with ISO		3046, AS 2789, DIN 6271 and BS	5514.
3046, AS 2789, DIN 6271 and BS		5514.	
5514.			

## Formulas for calculating full load currents:

Three phase output

Single phase output

kW x 1000 Voltage x 1.73 x 0.8 kW x Single Phase Factor x 1000 Voltage

#### See your distributor for more information.

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