



**SACCAL INDUSTRIES S.A.L.**  
Member of Saccal Holding

# DN 88

Engine Deutz, WP4D66E200

## STANDARD FEATURES

- Water cooled DEUTZ diesel engine.
- Radiator with pressure cap and drain point
- Fully guarded engine-driven fan
- Fully welded steel skid base with lifting points
- Heavy duty rubber anti-vibration mountings
- 12V starter batteries and connecting cables
- Separate engine-driven battery charging alternator
- Spin on oil and fuel filters and dry type air filter element



Voltage	Standby Power KVA	Prime Power KVA	Stand by Amps	Dimensions	Weight
415 / 240	88	80		L x W x H = 2080 x 950 x 1100 mm	920 Kg.
400 / 230	88	80			
380 / 220	88	80			

### POWER DEFINITION

**Prime Power** is available for an unlimited number of annual operating hours in variable load applications

**Standby Power** is applicable for supplying emergency power in variable load applications

### TERMS OF USE

Standard reference conditions Standby / Prime 27°C / 40°C Air Inlet Temp, 1000 m / 1000 m A.S.L. 60% relative humidity.



### Main features:

- Heavy level acoustic attention: 65 dB at 1 meter from all directions on site
- A critical type muffler is mounted inside the enclosure
- Total design flexibility
- Robustness and enhanced durability
- Heavy duty base frame made up of steel U channels 10\*5cm insulated with 10cm sound absorbing material and covered by 3mm sheet steel from both sides up and down
- Canopy components are manufactured in 3mm sheet steel
- Canopy walls and ceiling are coated with sound absorbing material
- Anti Scratch 100 micron Powder Paint Coated under the temperature of 120 oC
- Four lockable doors
- Four lifting points
- Oil and coolant drainage points
- Easy canopy dismantling for maintenance purpose
- Full weather proof enclosure
- Suitable for operation in very adverse weather conditions

### Dimensions Super Sound Proof Version

Canopy	CS88
Length (mm).	3170
Width (mm).	1220
Height (mm).	1850
Dry weight (kg).	N/A

This document is not contractual –Saccal Industries company reserves the right to modify any of the characteristics stated in this data sheet without notice in a constant effort to improve the quality of its products.

Saccal Industries S.A.L. – Taanayel – Bekaa – Lebanon.  
Tel +961 (8) 51 01 57 – Fax : +961 (8) 51 01 58 – [www.saccal.com](http://www.saccal.com)



## ENGINE SPECIFICATIONS

GENERAL DATA	Motor model	DEUTZ WP4D66E200, 4 cylinders
	Cylinder arrangement	Vertical in-line
	Displacement (L)	4.5
	Bore (in) X Stroke (in)	105 mm x 130 mm
	Compression ratio	16.0:1
	Speed (RPM)	1500
	Cycle	4 Stroke
	Maximum stand-by power at rated RPM (BHP)	NA
	BMEP (psi)	NA
	Governor type	Mechanical
EXHAUST SYSTEM	Exhaust gas temperature (°C)	430
	Exhaust gas flow (cfm)	1609
	Max. exhaust back pressure (mmWG)	300
FUEL SYSTEM	Consumption @ 110% load (L/hr)	15.0
	Consumption @ 100% load (L/hr)	13.6
	Consumption @ 75% load (L/hr)	11.3
	Consumption @ 50% load (L/hr)	12.5
OIL	Oil capacity (L)	9.5
	Min. oil pressure (Bar)	4.7
	Max. oil pressure (Bar)	7.5
	Oil consumption 100% load (L/hr)	1.36
THERMAL BALANCE	Heat rejection to exhaust (KW)	NA
	Radiated heat to ambient (KW)	NA
	Heat rejection to coolant (kW)	NA
AIR INTAKE	AIR INTAKE_entree_max% Intake air flow (L/sec)	NA
COOLANT SYSTEM	Engine capacity (L)	17
	Max water temperature (°C)	102
	Outlet water temperature (°C)	95
	Fan power (kW)	3
	Fan air flow w/o restriction (m3/sec)	4.44
	Available restriction on air flow (mm WG)	20
	Type of coolant Thermostat (°C)	Gencool 82-105
EMISSIONS	Emissions PM (g/kW.h)	NA
	Emission CO (g/kW.h)	NA
	Emissions HCNOx (g/kWh)	NA
	Emission HC (g/kW.h)	NA

This document is not contractual –Saccal Industries company reserves the right to modify any of the characteristics stated in this data sheet without notice in a constant effort to improve the quality of its products.