



# PN 88

Engine Perkins, 1104A-44TG2

## STANDARD FEATURES

- Water cooled PERKINS 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	122.4	L x W x H = 1850 x 820 x 1270 mm	1080 Kg.
400 / 230	88	80	127.0		
380 / 220	88	80	133.7		

### 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 2, 3mm sheet steel from both sides up and down
- Canopy components are manufactured in 1.5, 2, 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	SSP88
Length (mm).	2700
Width (mm).	1150
Height (mm).	1300
Dry weight (kg).	N/A

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## ENGINE SPECIFICATIONS

		Perkins 1104A-44TG2, 4 cylinders
DATA  GENERAL DATA	Motor model	
	Cylinder arrangement	Vertical in-line
	Displacement (L)	4.4
	Bore (in) X Stroke (in)	105 mm x 127 mm
	Compression ratio	17.25:1
	Speed (RPM)	1500
	Cycle	4 Stroke
	Maximum stand-by power at rated RPM (BHP)	106.2
	BMEP (psi)	NA
	Governor type	Mechanical
EXHAUST SYSTEM	Exhaust gas temperature (°C)	555
	Exhaust gas flow (cfm)	780
	Max. exhaust back pressure (mmWG)	300
FUEL SYSTEM	Consumption @ 110% load (L/hr)	
	Consumption @ 100% load (L/hr)	
	Consumption @ 75% load (L/hr)	14.0
	Consumption @ 50% load (L/hr)	
OIL	Oil capacity (L)	8.0
	Min. oil pressure (Bar)	4.7
	Max. oil pressure (Bar)	7.5
	Oil consumption 100% load (L/hr)	N/A
THERMAL BALANCE	Heat rejection to exhaust (KW)	99
	Radiated heat to ambient (KW)	16
	Heat rejection to coolant (kW)	55
AIR INTAKE	AIR INTAKE_entree_max% Intake air flow (L/sec)	NA
COOLANT SYSTEM	Radiator & Engine capacity (L)	13.0
	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 82-95
EMISSIONS	Emissions PM (g/kW.h)	NA
	Emission CO (g/kW.h)	NA
	Emissions HCNOx (g/kWh)	NA
	Emission HC (g/kW.h)	NA

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