Generating Set

TECHNICAL DATA SHEET

XMN 88



Prime Power.	Standby Power··	Voltage/Ph	Hz/rpm…	PF
80 kVA/64 kWe	88 kVA/70 kWe	400/3Ph	50/1500	0.8

Prime power*

Unlimited hours usage with an average load factor of 80% of the published Prime power over each 24 hours period. A 10% overload is available for1 hour in every 12 hours operation.

Standby power**

Limited to 500 hours annual usage with an average load factor of 80% of the published Standby power rating over each 24 hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted on Standby power. Available in 60HZ for all voltage ratings.***

Standard Reference Conditions Note: Standard reference conditions 40°C (104°F) Air Inlet Temp, 100m (328 ft) A.S.L. 30% relative humidity.

Diesel Generator Set				
Engine Make /Model	PERKINS 1104A-44TG2			
Alternator Make /Model	Leroy Somer TAL-044-C			
Control Panel	DSE 4520			
Base Frame / Silent Canopy	Robust Structure/ Corrosion Resistant			
Circuit Breaker Type	3 Pole MCCB (4P Available as optional)			
Built in Base Fuel Tank Capacity	190L			
Battery	Maintenance free Lead Acid			

Dimensions	Length (mm)	Width (mm)	Height (mm)	Weight (KG)
Close Type	2822	1122	1375	1570
Open Type	2006	900	1410	1010

ENGINE SPECIFICATIO	ONS					
Engine Make Model	PERKINS 1104A-44TG2		LUBRICATION SYSTEM			
No. of Cylinders	4 vertical in-line		Oil Filter Type	Sp	in-On Full Flow	
Cycle	4 Stro	ke		Total Oil Capacity	8.0 L	
Aspiration	Turbo	charged		Oil Type	API-CH-4 or ACEA E5	
Cooling Method	Wate	r cooled		AIR SYSTEM		
Governing Type	Mech	anical		Air Filter Type		Dry Element
Governing Class	G2 - ISO 8528 Part 1		Combustion Air Flow		4.8 m ³ /min	
Compression Ratio	17.25	1		(PRP)		
Displacement	4.4 L		Combustion Air Flow		5.1 m ³ /min	
Bore/Stroke	105 x 127 mm			(ESP)		5.1 m / mm
Dynamic Charging Alter- nator	65AN	1P, 12V		Max Air Filter Intake Restriction		8 kPA
COOLING SYSTEM				Exhaust System		
Total Coolant Capacity (L	.)	13.0 L		Muffler Type		Industrial Grade
Cooling Fan Air Flow		89 m ³ / min		Max. Back Pressure		10 kPa
Radiator Fan Load		1.5 kW		Exhaust Gas Flow (PRP/ESF)	12.5 /13.3 m3/ min
Cooling system design 50 ⁰ C			Exhaust Gas Tempera- ture -<580 C		0	
Heat Radiation to Room (PRP) 14 kW					-<580 C	

Comply with Standards

ISO 3046, BS 5514, DIN 6271, NEMA-MGI, DIN EN, BS 5000, IEC 60034, IEC 60947-2

Powered By:







Silent / Closed Type Image for illustration purposes only.

Why XMN Generator Technology ?

When you are running a business every competitive advantage counts, choosing a right Generator Set can make all the difference to bottom line.

1. Features & Benefits:

- XMN Gen set is powered by Perkins Engine, the world leader having over 85 years of innovation and excellence, with customers support in 182 countries from 3500 outlets.
- XMN Gen set is powered by Leroy Somer France Alternator, the Global number 1 in Alternators, with over 99 years of Experience, Having 120+ active patents, in over 40 countries and over 80 service centers.
- XMN Gen set is equipped with DSE controller, one of the world's top manufacturers in UK, having over 40 years of excellence, the most advanced and user friendly controller.
- Low fuel consumption, saving on fuel spend
- Compact and rugged design, saving on transport and storage cost
- Designed to occupy less space considering critical applications and cities where space is at a premium.
- Low noise and vibration, considering critical applications where noise level matters
- Easy maintenance and long service intervals, saving on maintenance cost
- Subject to rigorous tests including load acceptance, cooling, vibration and noise level prior shipment to customer.
- Simple to operate and environment friendly in worst ambient conditions
- Equipped with built-in fuel tank sufficient for 8 to 10 hours of operations.
- Fully Engineering wide range of optional accessories available.

Generating Set

TECHNICAL DATA SHEET



PERKINS Engine 1103A-33TG2



Lerov Somer TAL-042-C



DSE4530 MKII AUTO START & AUTO MAINS FAILURE CONTROL



NGT ENCLOSURE/ CANOPY

Engine Fuel System	
Recommended Fuel	Class A2 Diesel
Fuel Consumption Standby	20.5 L/hr
Fuel Consumption 100% PRP	18.7 L/hr
Fuel Consumption 75% PRP	14.0 L/hr
Fuel Consumption 50% PRP	9.7 L/hr

ALTERNATOR SPECIFICATIONS

Alternator Make /Model	Leroy Somer TAL-042-C		
AVR Model	R120		
Number of Poles	4		
Number of Winding Leads	6		
Type of Bearing	Single Bearing		
Insulation Class - Temp Rise	Cont. H - 125/40°C		
Ingress Protection Rating	IP 23		
Excitation System	Self Excited		
Voltage Regulation	+ 1%		
Harmonic Coefficient THF	< 2%		
Tel. influence TIF	< 50		
Cooling air flow	0.25 m ³ / Sec		

Controller Make & Model		DeepSea 4520
Operation Mode		AMF
Display		aphic Back-lit LCD 28x64) pixles
Ingress Protection Rating		IP65
Binary Inputs/Outputs		4 / 4
Analog Inputs		3
Measurement		Vac, A, Hz, kVA, kW, Vdc
Event Log		Alarms log, Hrs log
Communication		USB

Please refer to Controller Data Sheet for more details.

Enclosure Type	Acoustic & Weather Proof
Drainage	Fuel and Water Drainage Provision
Transportation	Tested Single Point Lifting Facility & Forklift Pockets
Ingress Protection	IP 23
Lifting	ISO Standard Lifting
Canopy RAL Color	RAL 9010 - Powder coated
Base frame RAL Color	RAL 9011 - Powder coated
Noise Pressure level @	68db(A) @ 7 mt

Distributed & Serviced by:





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2. WARRANTY POLICY:

- XMN Generator technology products has a warranty for all prime equipment, lim-ited to 2000 running hours or 12 months warranty & For Standby equipment, Limited to 500 running hours or 12 months warranty whichever occur first against manufacturing defect. •
- Wearing parts (filters), incorrect man-made operation, Back up Genset mainte-nance failures are excluded from the ٠ warranty policy For more details please refer to
 - https://xmn-power.business.site/

3. DOCUMENATION

Operation and Maintenance Manual, GAD, Wiring Diagram & FAT Report are Accompanied with Genset.

4. OPTIONAL FEATURES

A. Engine

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- Heavy-Duty Air Filter
- Coolant Heater
- Lubricant Oil Heater
- Fuel and Water Separator .
- Lube Oil Rotary Pump •

B. Alternator

- Anti Condensation Heater
- . PMG + AVR
- **Double Bearing Alternator**
- RTDs For Bearing and Winding •

C. Cooling System:

- 55 degree Radiator
- **Remote Radiator**

D. Control System: AMF / Parallel

- Remote Annunciators
- 4 p manual/Motorized Circuit breaker

E. Automatic Transfer Switch (ATS):

- Contractor or Breaker type AT •
- Motorized changeover type ATS

F. Start Battery:

- Nickel-cadmium battery
- Maintenance-free battery
- Battery charger and selector switch Charging current meter

- G. Exhaust Muffler: Residential grade
- Critical grade
- Hospital grade

H. Available for voltages :

400/230V,480/277V,380/220V,440/254V, 416/240V,220/127V, 208/120V

Due to continuous research & product development, we reserve the right to change specification with out notice