

# **Generating Set**

**TECHNICAL DATA SHEET** 

# **P33**

Prime Power*	Standby Power**	Voltage/Ph	Hz/rpm···	PF
30 kVA/24 kW	33 kVA/26 kW	400/3Ph	50/1500	0.8

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 for 1 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 1103A-33G (UK)
Alternator Make /Model	Leroy Somer TAL-042-C (FRANCE)
Control Panel	DSE 6110 (UK)
Base Frame / Silent Canopy	Robust Structure/ Corrosion Resistant
Circuit Breaker Type	3 Pole MCCB (4P Available as optional)
Built in Base Fuel Tank Capacity	120L
Battery	Maintenance free Lead Acid

Dimensions	Length (mm)	Width (mm)	Height (mm)	Weight (KG)
Close Type	2250	1050	1330	1140
Open Type	1500	800	1250	700

Open Type	1500	1500 800			700	
ENGINE SPECIFICATION	ONS					
Engine Make Model	PERKINS 1103A-33	BG LUBRIC	LUBRICATION SYSTEM			
No. of Cylinders	3 vertical in-line	Oil Filte	er Type	Spin-	On Full Flow	
Cycle	4 Stroke			8.3 I	8.3 L	
Aspiration	Naturally Aspirate	spirated Oil Type		API-CH-4 or ACEA E5		
Cooling Method	Water cooled	AIR SYSTEM				
Governing Type	Mechanical	Air Filte	Air Filter Type		ry Element	
Governing Class	G2 - ISO 8528 Part	Combu	Combustion Air Flow (PRP)		2.15 m <sup>3</sup> /min	
Compression Ratio	19.25:1	(PRP)			2.13 111 / 1111111	
Displacement	3.3 L		stion Air Flow	2.	16 m³/min	
Bore/Stroke	105 x 127 mm	(ESP)				
Dynamic Charging Alternator	65AMP, 12V	Max Ai Restric	r Filter Intake tion	3	kPA	
COOLING SYSTEM		Exhaus	st System			
Total Coolant Capacity (I	L) 10.2 L	Muffle	r Type	In	dustrial Grade	
Cooling Fan Air Flow	53 m <sup>3</sup> / min	Max. B	ack Pressure	81	кРа	
Radiator Fan Load	0.4 kW	Exhaus	t Gas Flow (PRP/ESP	5.7	//5.8 m3/ min	
Cooling system design	50°C	Exhaus	t Gas Tempera-	< 5	20°C	

#### **Comply with Standards**

Heat Radiation to Room (PRP) 6 kW

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.

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:

- PGT 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.
- PGT 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.
- PGT 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
- 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.

(Contd.)



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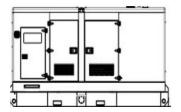
PERKINS Engine 1103A-33G



Leroy Somer TAL-042-C



DSE6110 MKIII Auto Start Control Module



PGT ENCLOSURE/ CANOPY

Engine Fuel System				
Recommended Fuel	Class A2 Diesel			
Fuel Consumption Standby	8.1 L/hr			
Fuel Consumption 100% PRP	7.2 L/hr			
Fuel Consumption 75% PRP	5.6 L/hr			
Fuel Consumption 50% PRP	4.0 L/hr			

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	< 3.5%
Tel. influence TIF	< 50
Cooling air flow	0.10 m <sup>3</sup> / Sec

Controller Make & Model	DeepSea 6110	
Operation Mode	AMF	
Display	Graphic Back-lit LCD (128x64) 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	

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 @	66db(A) @ 7 mt



Open Type

Image for illustration purposes only.

#### 2. WARRANTY POLICY:

- PGT Generator technology products has a warranty for all prime equipment, limited to 2000 running hours or 12 months warranty whichever occur first against manufacturing defect.
- Wearing parts (filters), incorrect manmade operation, Back up Genset maintenance failures are excluded from the warranty policy. PGT can provide maintenance for customer which can be charged.

#### 3. DOCUMENATION

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

#### 4. OPTIONAL FEATURES

#### A. Engine

- 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 ATS
- 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