

Generating Set

TECHNICAL DATA SHEET

P22

Prime Power	Standby Power**	Voltage/Ph	Hz/rpm···	PF
20 kVA/16 kW	22 kVA/18 kW	400/3Ph	50/1500	0.8

Prime power³

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 404A-22G1 (UK)
Alternator Make /Model	Leroy Somer TAL-040-F (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	1900	900	1240	790
Open Type	1300	750	1250	500
ENGINE SPECIFICAT	IONS			

Open Type	1	.300	7	750	1250		500	
ENGINE SPECIFICATIONS								
Engine Make Model PERKINS 404A-22G1		61	LUBRICATION SYSTEM					
No. of Cylinders	3 vertical in-line			Oil Filter Type S		Spin	-On Full Flow	
Cycle	4 Strol	ke		Total Oil Capacity 8		8.3	L	
Aspiration	Naturally Aspirated Oil Type			API-0	CH-4 or ACEA E5			
Cooling Method Water cooled		AIR SYST	EM					
Governing Type	Mecha	nical		Air Filter	r Type		ry Element	
Governing Class	G2 - ISO 8528 Part 1		1	Combusti	on Air Flow	1	45 m³/min	
Compression Ratio	23.3:	23.3:1		(PRP)		1.	1.45 111 / 1111111	
Displacement	2.216 L				on Air Flow	1.	45 m³/min	
Bore/Stroke	84 x 100 mm		(ESP)		-	-13 111 / 111111		
Dynamic Charging Alternator	15AMP, 12V		Max Air F Restrictio	ilter Intake n	6	.4 kPA		
COOLING SYSTEM			Exhaust 5	System				
Total Coolant Capacity (L) 7.0 L			Muffler T	уре	In	dustrial Grade		
Cooling Fan Air Flow 40.2 m³/ min		in	Max. Bac	k Pressure	10	0.2 kPa		
Radiator Fan Load 0.3 kW			Exhaust (Gas Flow (PRP/ESP)	23	.64/3.94 m3/ min		
Cooling system design		50°C		Exhaust Gas Tempera- < 405°C		105 ⁰ C		

ture

Comply with Standards

Heat Radiation to Room (PRP) 4.4 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 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.

(Contd.)

PerkinsGenerating Set

TECHNICAL DATA SHEET

P22



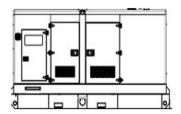
PERKINS Engine 404A-22G1



Leroy Somer TAL-040-F



DSE6110 MKIII
Auto Start Control Module



PGT ENCLOSURE/ CANOPY

Engine Fuel System	
Recommended Fuel	Class A2 Diesel
Fuel Consumption Standby	6.1 L/hr
Fuel Consumption 100% PRP	5.3 L/hr
Fuel Consumption 75% PRP	4.0 L/hr
Fuel Consumption 50% PRP	2.9 L/hr

ALTERNATOR SPECIFICATION	ONS
Alternator Make /Model	Leroy Somer TAL-040-F
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	0.06 m ³ / 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