



# DIESEL GENERATOR SET



MODEL		P22
Standby Power (50HZ)		17.6KW/22KVA
Prime Power (50HZ)		16KW/20KVA
Open type	1320*600*1200mm/330 kg	
Soundproof Type	2000*950*1250mm/670 kg	
Fuel tank 60L (8 hours)		
<b>Features</b> Compact structure with high-strength chassis; • Easy operation and maintenance, Low cost; • Excellent performance damping system; • Compliance with international electrical safety standards of electrical system; • High-performance maintenance-free batteries with isolation switch • 50 Radiator; • Top lifting, Forklift bottom hole design, easy to transport; • Absorber; • Convenient power output interface; • Customized design for user; • Ripple flex exhaust pipe, exhaust siphon, flange, Industrial muffler; • Dry type air filter, fuel filter, oil filter.		
<b>Genset Technical Data</b>		
Rated voltage	400 V	
Phase	3	
Noise	@7m 65dB	
Fuel consumption of 100% load	5.3 Litres/h	
Fuel consumption of 75% load	4.0 Litres/h	
Voltage regulation rate	≤±1%	
Random voltage variation	≤±1%	
Frequency regulation rate	≤±5%	
Random frequency variation	≤±0.5%	
<b>ENGINE DATA</b>		
Engine Model	404D-22G	
Engine Manufacturer	PERKINS	
Number of Cylinder	4	
Cylinder arrangement	Vertical in-line	
Cycle	4 stroke	
Aspiration	naturally	
Bore x Stroke	84 x 100 mm	
Displacement	2.216L	
Compression Ratio	23.3:1	
Prime Power/speed	18.4KW / 1500rpm	
Standby Power/speed	20.3KW / 1500rpm	
Speed governor	Electrical	
Cooling System	Forced Water Cooling Cycle	
Steady speed droop	≤1%	
Total lubrication system capacity	10.6L	
Coolant capacity	7L	
Fuel consumption at 100% load	237 g/Kw.h (at 1500RPM)	
Starter motor	DC 12V	
Alternator	DC 12V	
<b>Alternator Specifications :- GP/STAMFORD/LEROY SOMER</b>		
Alternator model	184E	
Prime power/speed	17.6KW	
Standby power/speed	16KW	
Connecting Type:	3 Phase and 4 Wires, "Y" type connecting	
Efficiency	82,7%	
Rated speed	1500 RPM	
Rated frequency	50HZ	
Phase	3	
Rated voltage	400V	
Exciter type	Self excitation, Brushless	
Power factor	0,8	
Voltage adjust range	≥5%	
Voltage regulation NL-FL	≤±1%	
Insulation grade	H	
Protection grade	IP23	
<b>Optional</b>		
<b>Fuel System</b>		
• 12 / 24 hour base tank (single wall)		
• Dual wall base fuel tank		
• Outside fuel tank		
• Automatic fuel feeding		
• Fuel level indicate		
<b>Canopy</b>		
• Hired type		
• Economy Oil heater		
• Trailer		



### DSE Control Panel

DSE is an Auto Mains (Utility) Failure Control Module suitable for diesel gen-set applications.

Monitoring speed, frequency, voltage, current, oil pressure, coolant temperature and fuel level, the modules will display warnings, shutdown and engine status information on the back-lit LCD screen and illuminated LED.

DSE6020 offer electronic (CAN) and non-electronic (magnetic pick-up/alternator sensing) engine versions and offer a number of flexible inputs, outputs and engine protections so the system can be easily adapted to suit a wide range of application demands. The modules can be easily configured using the DSE Configuration Suite PC software. Selected front panel editing is also available.

#### KEY FEATURES

- AMF & ATS
- Front panel editing
- Power Save mode
- 4 Digital inputs
- 3 Analogue inputs
- Alternative configuration
- Event Log (5)
- Remote Start input
- Test button
- Engine pre-heat
- Hours counter
- Configurable timers and alarms
- Back-lit icon LCD display

- LED and LCD alarm indication
- PC and front panel configuration
- 3 Phase generator monitoring
- Current monitoring and protection
- Power monitoring (kW, kV A, kV Ar)
- 3 Phase Mains (Utility) monitoring
- Battery Voltage monitoring
- CAN and Magnetic Pick-up/Alt. versions available (specify on ordering)
- 6 Outputs (4 configurable on Magnetic Pick-up/Alt., 6 configurable on CAN version)
- Comprehensive shutdown or warning on fault condition

#### KEY BENEFITS

- Automatically transfers between mains (utility) and generator power
- Hours counter provides accurate information for monitoring and maintenance periods
- User-friendly set-up and button
- Multiple engine parameters are monitored simultaneously
- Module can be configured to suit individual applications
- Compatible with a wide range of CAN engines
- Uses DSE Configuration Suite PC software for simplified configuration
- IP65 rating (with optional gasket) offers increased resistance to water ingress
- Licence-free PC software