

PFD20-1

20kVA Silent Diesel Generator

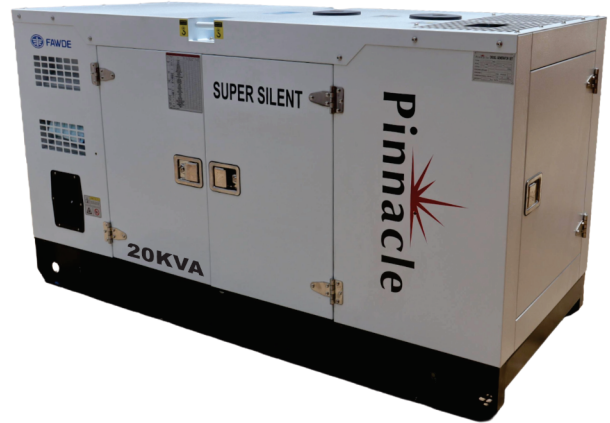
Single Phase Industrial Diesel Generator



Secure your essential operations with the FAW Generator, the optimal choice for reliable, quiet power. This cost-effective, industrial-grade 20kVA Single-Phase Diesel Generator delivers robust 230V backup power with maximized uptime. Its super-silent enclosure ensures seamless integration into noise-sensitive environments like residential estates, small farms, and retail businesses.

Key Protective Features:

Low Oil Pressure Shutdown | High Engine Temperature Shutdown | Emergency Stop (E-Stop) | Overload Protection | Weatherproof/Acoustic Enclosure



Model		PFD20-1
Prime Power	kVA	20kVA
Standby Power	kVA	23kVA
Rated Voltage Line to Line	V	230V Adjustable
Rated Current	A	87A
Max. Sound Level -	dB (@7m)	73dB

Engine		FAW
Model		4DW91-29D
Aspiration Type		Natural
Injection Type		Direct
No. Cylinders		4 In-line
Displacement	L	2.54
Bore* Size	mm	90x100
Compression Ratio		17:1
Rated Speed	r/min	1500
Engine Prime Power	Kw	16
Governor Type		Electric

Exhaust System		
Exhaust Gas Flow	m ³ /min	4.2
Exhaust Gas Temperature	°C	480
Max. Intake Restriction	kPa	3.7

Electrical System		
Charging Alternator Voltage	V	12
Charging Alternator Capacity	A	35
Starting Voltage	V	12

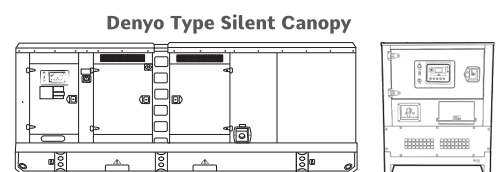
Fuel System		
100% Load (Prime Power)	L/h	6.5
75% Load (Prime Power)	L/h	4.5
50% Load (Prime Power)	L/h	3.5
Fuel Tank Capacity	L	60

Lubrication System		
Oil Capacity	L	8
Lubrication Oil Specification		15W40
Max. Oil Temperature	°C	120°C
Lubrication Method	Fully forced pressure feed type	
Oil Pump	Gear type driven by camshaft	

Cooling System		
Water Capacity For Engine	L	6
Max. Permissible Temperature	°C	100°C
Max. Shutdown Temperature	°C	104°C

Alternator		PINNACLE
Model		P184FS
Phase		Single Phase
Voltage	V	230V
Wiring Type	3ph	4 Wire, Y Type
Bearings		1
Power Factor		0.8
Frequency	Hz	50
Prime Power	kW	120
Exciter Type	Brush-less, Self-excitation	
Voltage Regulation	%	±0.5
Protection Grade	IP	23
Insulation Grade		H/H
Altitude	m	≤1000

Controller	DeepSea DSE6120
Protective Functions:	
• High Engine Temperature and Overspeed	
• Voltage Regulator Frequency Calculator	
• Low Oil Pressure	
• High Water Temperatures	
• High/Low Voltage	
• Emergency Stop	
• Start Failure	



Weight: 220kg L x W x H: 700mm x 555mm x 680mm

- Specifications to change without notice.
- All rating at sea level, 25°C ambient temperature.

Pinnacle Power

011 824 0001
 dennis@pinnacleholding.co.za
 delmaine@pinnacleholding.co.za
 rashaad@pinnacleholding.co.za
 www.pinnaclepower.co.za



DSE6110 MKIII



DSE6120 MKIII

KEY FEATURES:

- 4-line back-lit LCD text digital
- Multiple display languages
- Five-key menu navigation
- LCD alarm indication
- Customisable power-up text and screen images.
- DSENet® expansion compatibility
- Data logging facility
- Internal PLC editor
- Protections disable feature
- Fully configurable via PC using USB communications
- Front panel configuration with PIN protection
- Power save mode
- 3-phase generator sensing and protection (DSE6120 MKIII only)
- Automatic load transfer control (DSE6120 MKIII only)
- Generator current and power monitoring (kW, kvar, kVA, pf)
- Mains (utility) current and power monitoring (kW, kvar, kVA, pf) (DSE6120 MKIII only)
- kW overload alarm
- Over current protection
- Breaker control via fascia buttons
- Fuel and start outputs configurable when using CAN

- 6 configurable DC outputs
- 4 configurable analogue/digital inputs
- Support for 0 V to 10 V & 4 mA to 20 mA sensors
- 8 configurable digital inputs
- CAN, MPU and alternator frequency speed sensing in one variant
- Real time clock
- Manual and automatic fuel pump control
- Engine pre-heat and post-heat functions
- Engine run-time scheduler
- Engine idle control for starting & stopping
- Fuel level alarms
- 3 configurable maintenance alarms
- Compatible with a wide range of CAN engines, including Tier 4 engine support
- Uses DSE Configuration Suite PC Software for simplified configuration
- Licence-free PC software
- IP65 rating (with optional gasket) offers increased resistance to water ingress
- Configurable CAN read & transmitted information.
- 1 alternative configuration.

KEY FEATURES:

- Automatically transfers between mains (utility) and generator (DSE6120 MKIII only) for convenience.
- Hours counter provides accurate information for monitoring and maintenance periods
- User-friendly set-up and button layout for ease of use
- Multiple parameters are monitored & displayed simultaneously for full visibility
- The module can be configured to suit a wide range of applications for user flexibility
- PLC editor allows user configurable functions to meet user specific application requirements.

COMPREHENSIVE FEATURE LIST TO SUIT A WIDE VARIETY OF GEN-SET APPLICATIONS

