



■ General Characteristics

Item	Data
Standby Power (kVA)	33
Standby Power (kW)	26
Prime Power (kVA)	30
Prime Power (kW)	24
Power Factor (Cos Phi)	0.8
Diesel Engine	BFM3-G2
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

Power Definition

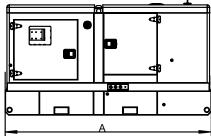
Standby Power(ESP): The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

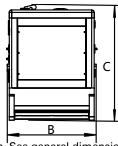
Prime Power(PRP): The prime power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1.

Terms of use

According to the standard, the nominal power assigned by the genset is given for 25 °C air inlet temperature, of a barometric pressure of 100 kPA (100m A.S.L) and 30%.

■ Dimensions, weights & FuelTank





Note: General configuration not to be used for installation. See general dimension drawings for detail.

Model	Constructure	Dim"A"mm	Dim"B"mm	Dim"C"mm	Dry Weight kg	Fuel Tank Capacity L
PDL33-O	Open set	1804	650	1306	600	135
PDL33-C	Silent set	2280	955	1250	880	90





■ Engine Data

General Engine Data			
Engine brand	DEUTZ		
Engine model	BFM3-G2		
Engine type	4-stroke diesel		
Governor type	Electronic		
Injection type	Direct		
Aspiration type	Naturally Aspirated		
Number of cylinders and arrangement	4-L		
Bore and stroke (mm*mm)	98X105		
Displacement (L)	3.168		
Cooling system	Water-cooled		
Lube oil consumption with full load	0.5% of fuel consumption		
Compression Ratio	18.5:1		
Air Filter	Dry		
Fuel Consumption			
Fuel Consumption @ 100% load ESP (L/H)	8.5		
Fuel Consumption @ 100% load PRP (L/H)	7.7		
Fuel Consumption @75% load PRP (L/H)	5.8		
Fuel Consumption @50% load PRP (L/H)	3.9		
Air System			
Intake air flow (L/s)	36.7		
Cooling air flow (L/s)	1100		
Exhaust System			
Maximum exhaust temperature (°C)	530		
Exhaust gas flow (L/s)	75		
Maximum allowed back pressure (kPa)	10		
Starting System			
Starting power(kW)	3		
Recommended battery (Ah)	60		
Number of Batteries	1		
Auxiliary voltage (Vdc)	12		
Oil System			
Engine oil capacity (L)	7.5		
Cooling System			
Total coolant capacity (L)	4.8(engine)		





Alternator Data

Alternator Data			
Number of phase	3		
Power factor (Cos Phi)	0.8		
Poles	4		
Winding Connections (standard)	Star-serie		
Insulation	H class		
Enclosure(according IEC-34-5)	IP23		
Excitation system	Self-excited, brushless		
Voltage regulator	AVR (Electronic)		
No. of bearings	Single bearing		
Coupling system	Flexible disc		
Coating type	Standard (Vacuum impregnation)		

Control Module



Protections with alarm

- Engine protections: low fuel level, low oil pressure, high engine temperature.
- Genset protections: under/over voltage, overload, under/over frequency, starting failure, under/over battery voltage

Other Protections

- Emergency stop button.
- Panel protected through door with lockable handle

Digital Instrumentation

- Generating set voltage.
- Mains voltage.
- Generating set frequency.
- Generating set current.
- Battery voltage.
- Power (kVA-kW-kVAr)
- Power factor Cos φ.
- Hours-counter
- Engine speed r.p.m
- Fuel level (%)

Commands and other

- Four operation modes: OFF Manual starting -Automatic starting - Automatic test
- Pushbutton for forcing Mains contactor or Genset contactor.
- Push-buttons: start/stop, fault reset, up/down/page/enter selection.
- Remote starting availability.
- DC system disconnection switch.
- Acoustic alarm.
- Automatic battery charger.

Protections with shutdown

- Engine protections: low fuel level, low oil pressure, high engine temperature,
- Genset protection: under/over voltage, overload, under/over battery voltage, battery charger failure.
- Circuit breaker protection: III poles.
- Earth Fault included in the control unit.

