



■ General Characteristics

Item	Data
Standby Power (kVA)	220
Standby Power (kW)	176
Prime Power (kVA)	200
Prime Power (kW)	160
Power Factor (Cos Phi)	0.8
Diesel Engine	BF6M1013EC G3
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

Power Definition

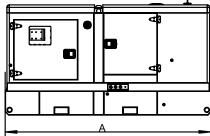
Standby Power(ESP): The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

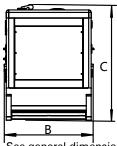
Prime Power(PRP): The prime power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1.

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
PDL220-O	Open set	2560	1100	1750	1800	330
PDL220-C	Silent set	3950	1290	2100	2650	400





■ Engine Data

General Engine Data				
Engine brand	DEUTZ			
Engine model	BF6M1013EC G3			
Engine type	4-stroke diesel			
Governor type	Electronic			
Injection type	Direct			
Aspiration type	Turbocharged and Air to Air charge cooling			
Number of cylinders and arrangement	6-L			
Bore and stroke (mm*mm)	108X130			
Displacement (L)	7.15			
Cooling system	Water-cooled			
Lube oil consumption with full load	0.3%of fuel consumption			
Compression Ratio	19:1			
Air Filter	Dry			
Fuel Consumption				
Fuel Consumption @100% load ESP (L/H)	50.2			
Fuel Consumption @100% load PRP (L/H)	45.6			
Fuel Consumption @75% load PRP (L/H)	33.6			
Fuel Consumption @50% load PRP (L/H)	22.6			
Air System				
Intake air flow (L/s)	189.4			
Cooling air flow (L/s)	3000			
Exhaust System				
Maximum exhaust temperature (°C)	530			
Exhaust gas flow (L/s)	586.7			
Maximum allowed back pressure (kPa)	3			
Starting System				
Starting power(kW)	6			
Recommended battery (Ah)	100			
Number of Batteries	2			
Auxiliary voltage (Vdc)	24			
Oil System				
Engine oil capacity (L)	31			
Cooling System				
Total coolant capacity (L)	27.3			





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.

