

## ■ General Characteristics



Item	Data
Standby Power (kVA)	22
Standby Power (kW)	18
Prime Power (kVA)	20
Prime Power (kW)	16
Power Factor (Cos Phi)	0.8
Diesel Engine	BFM3 G1
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

### ● Power Definition

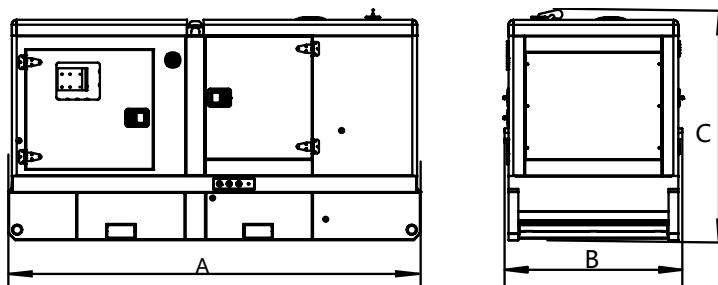
**Standby Power(ESP):** The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

**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 & Fuel Tank



**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
PDL22-O	Open set	1804	650	1306	550	135
PDL22-C	Silent set	2280	955	1250	850	90

## ■ Engine Data

General Engine Data	
Engine brand	DEUTZ
Engine model	BFM3 G1
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%-1% of fuel consumption
Compression Ratio	18.5:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @ 100% load ESP (L/H)	5.9
Fuel Consumption @ 100% load PRP (L/H)	5.4
Fuel Consumption @ 75% load PRP (L/H)	4
Fuel Consumption @ 50% load PRP (L/H)	2.8
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)	69.4
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  $\phi$ .
- 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.

## ■ 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

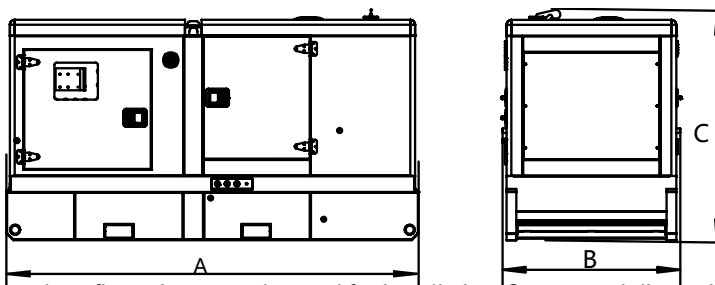
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**Prime Power(PRP):** The prime power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1.

### ● 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 & Fuel Tank



**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  $\phi$ .
- 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.

## ■ General Characteristics



Item	Data
Standby Power (kVA)	44
Standby Power (kW)	35
Prime Power (kVA)	40
Prime Power (kW)	32
Power Factor (Cos Phi)	0.8
Diesel Engine	BFM 3T
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

### ● Power Definition

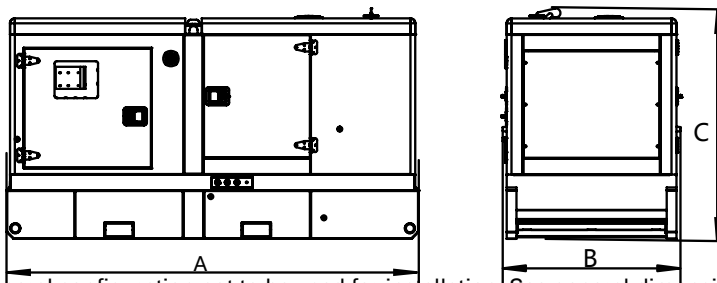
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**Prime Power(PRP):** The prime power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1.

### ● 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 & Fuel Tank



**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
PDL44-O	Open set	1980	855	1290	700	150
PDL44-C	Silent set	2320	1050	1250	900	95

## ■ Engine Data

General Engine Data	
Engine brand	DEUTZ
Engine model	BFM 3T
Engine type	4-stroke diesel
Governor type	Electronic
Injection type	Direct
Aspiration type	Turbocharged Aspiration
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)	11.3
Fuel Consumption @ 100% load PRP (L/H)	10.3
Fuel Consumption @ 75% load PRP (L/H)	8
Fuel Consumption @ 50% load PRP (L/H)	5.5
Air System	
Intake air flow (L/s)	42.5
Cooling air flow (L/s)	1300
Exhaust System	
Maximum exhaust temperature (°C)	560
Exhaust gas flow (L/s)	87.5
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  $\phi$ .
- 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.

## ■ General Characteristics



Item	Data
Standby Power (kVA)	55
Standby Power (kW)	44
Prime Power (kVA)	50
Prime Power (kW)	40
Power Factor (Cos Phi)	0.8
Diesel Engine	BFM3C
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

### ● Power Definition

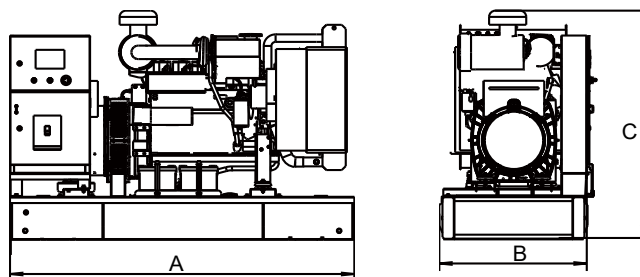
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**Prime Power(PRP):** The prime power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1.

### ● 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 & Fuel Tank



**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
PDL55-O	Open set	1980	855	1290	750	150
PDL55-C	Silent set	2320	1050	1250	950	95

## ■ Engine Data

General Engine Data	
Engine brand	DEUTZ
Engine model	BFM3C
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	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)	12.3
Fuel Consumption @ 100% load PRP (L/H)	11.2
Fuel Consumption @ 75% load PRP (L/H)	8.7
Fuel Consumption @ 50% load PRP (L/H)	6
Air System	
Intake air flow (L/s)	47.2
Cooling air flow (L/s)	1300
Exhaust System	
Maximum exhaust temperature (°C)	560
Exhaust gas flow (L/s)	91.7
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  $\phi$ .
- 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.

## ■ General Characteristics



Item	Data
Standby Power (kVA)	66
Standby Power (kW)	53
Prime Power (kVA)	60
Prime Power (kW)	48
Power Factor (Cos Phi)	0.8
Diesel Engine	BF4M2012
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

### ● Power Definition

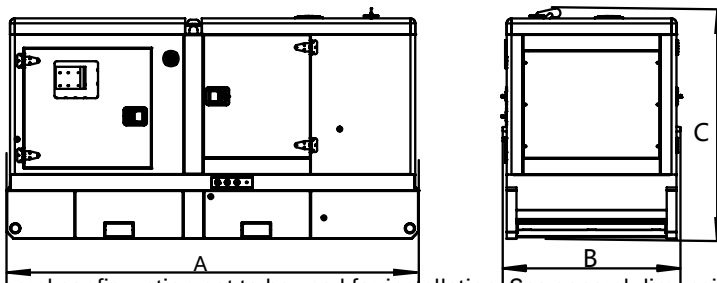
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**Prime Power(PRP):** The prime power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1.

### ● 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 & Fuel Tank



**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
PDL66-O	Open set	1800	900	1465	1000	150
PDL66-C	Silent set	2550	1050	1250	1600	95

## ■ Engine Data

General Engine Data	
Engine brand	DEUTZ
Engine model	BF4M2012
Engine type	4-stroke diesel
Governor type	Electronic
Injection type	Direct
Aspiration type	Turbocharged
Number of cylinders and arrangement	4-L
Bore and stroke (mm*mm)	101X126
Displacement (L)	4.04
Cooling system	Water-cooled
Lube oil consumption with full load	0.15% of fuel consumption
Compression Ratio	19:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @ 100% load ESP (L/H)	15.1
Fuel Consumption @ 100% load PRP (L/H)	13.7
Fuel Consumption @ 75% load PRP (L/H)	10.2
Fuel Consumption @ 50% load PRP (L/H)	7
Air System	
Intake air flow (L/s)	61
Cooling air flow (L/s)	1306
Exhaust System	
Maximum exhaust temperature (°C)	610
Exhaust gas flow (L/s)	146.1
Maximum allowed back pressure (kPa)	3
Starting System	
Starting power(kW)	6
Recommended battery (Ah)	100
Number of Batteries	1
Auxiliary voltage (Vdc)	12
Oil System	
Engine oil capacity (L)	8.5
Cooling System	
Total coolant capacity (L)	15.9

## ■ 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  $\phi$ .
- 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.

## ■ General Characteristics



Item	Data
Standby Power (kVA)	88
Standby Power (kW)	70
Prime Power (kVA)	80
Prime Power (kW)	64
Power Factor (Cos Phi)	0.8
Diesel Engine	BF4M2012C G1
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

### ● Power Definition

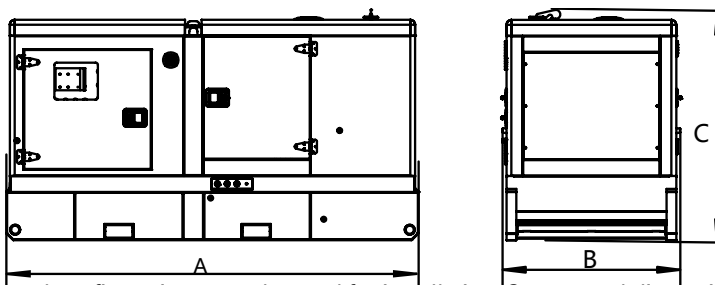
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### ● Terms of use

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 & Fuel Tank



**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
PDL88-O	Open set	1900	1035	1485	1120	170
PDL88-C	Silent set	2750	1100	1735	1700	170



## ■ Engine Data

General Engine Data	
Engine brand	DEUTZ
Engine model	BF4M2012C G1
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	4-L
Bore and stroke (mm*mm)	101X126
Displacement (L)	4.04
Cooling system	Water-cooled
Lube oil consumption with full load	0.15% of fuel consumption
Compression Ratio	19:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @ 100% load ESP (L/H)	19.9
Fuel Consumption @ 100% load PRP (L/H)	18.1
Fuel Consumption @ 75% load PRP (L/H)	13.3
Fuel Consumption @ 50% load PRP (L/H)	8.9
Air System	
Intake air flow (L/s)	74.3
Cooling air flow (L/s)	1500
Exhaust System	
Maximum exhaust temperature (°C)	600
Exhaust gas flow (L/s)	230.3
Maximum allowed back pressure (kPa)	3
Starting System	
Starting power(kW)	6
Recommended battery (Ah)	100
Number of Batteries	1
Auxiliary voltage (Vdc)	12
Oil System	
Engine oil capacity (L)	8.5
Cooling System	
Total coolant capacity (L)	15.9

## ■ 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  $\phi$ .
- 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.

## ■ General Characteristics



Item	Data
Standby Power (kVA)	100
Standby Power (kW)	80
Prime Power (kVA)	90
Prime Power (kW)	72
Power Factor (Cos Phi)	0.8
Diesel Engine	BF4M2012C G2
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

### ● Power Definition

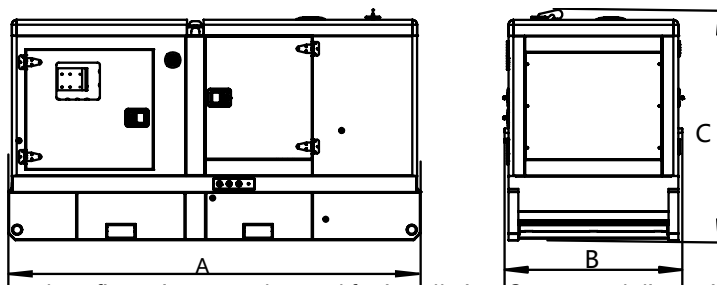
**Standby Power(ESP):** The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

**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 & Fuel Tank



**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
PDL100-O	Open set	1900	1035	1485	1180	170
PDL100-C	Silent set	2750	1100	1735	1800	170

## ■ Engine Data

General Engine Data	
Engine brand	DEUTZ
Engine model	BF4M2012C G2
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	4-L
Bore and stroke (mm*mm)	101X126
Displacement (L)	4.04
Cooling system	Water-cooled
Lube oil consumption with full load	0.15% of fuel consumption
Compression Ratio	19:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @ 100% load ESP (L/H)	23.4
Fuel Consumption @ 100% load PRP (L/H)	21.3
Fuel Consumption @ 75% load PRP (L/H)	15.9
Fuel Consumption @ 50% load PRP (L/H)	10.8
Air System	
Intake air flow (L/s)	88.9
Cooling air flow (m <sup>3</sup> /s)	1500
Exhaust System	
Maximum exhaust temperature (°C)	600
Exhaust gas flow (L/s)	301.9
Maximum allowed back pressure (kPa)	3
Starting System	
Starting power(kW)	6
Recommended battery (Ah)	100
Number of Batteries	1
Auxiliary voltage (Vdc)	12
Oil System	
Engine oil capacity (L)	8.5
Cooling System	
Total coolant capacity (L)	15.9

## ■ 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  $\phi$ .
- 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.

## ■ General Characteristics



Item	Data
Standby Power (kVA)	110
Standby Power (kW)	88
Prime Power (kVA)	100
Prime Power (kW)	80
Power Factor (Cos Phi)	0.8
Diesel Engine	BF4M1013EC G1
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

### ● Power Definition

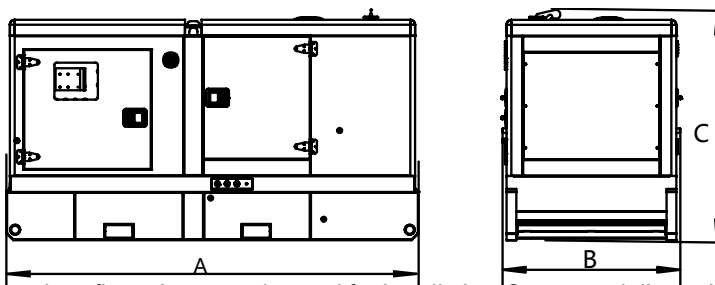
**Standby Power(ESP):** The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

**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 & Fuel Tank



**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
PDL110-O	Open set	2100	1045	1670	1200	200
PDL110-C	Silent set	2850	1100	1650	1800	190

## ■ Engine Data

General Engine Data	
Engine brand	DEUTZ
Engine model	BF4M1013EC G1
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	4-L
Bore and stroke (mm*mm)	108X130
Displacement (L)	4.76
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)	26.6
Fuel Consumption @ 100% load PRP (L/H)	24.2
Fuel Consumption @ 75% load PRP (L/H)	18
Fuel Consumption @ 50% load PRP (L/H)	12.2
Air System	
Intake air flow (L/s)	101
Cooling air flow (L/s)	1694
Exhaust System	
Maximum exhaust temperature (°C)	560
Exhaust gas flow (L/s)	306.1
Maximum allowed back pressure (kPa)	3
Starting System	
Starting power(kW)	6
Recommended battery (Ah)	120
Number of Batteries	1
Auxiliary voltage (Vdc)	12
Oil System	
Engine oil capacity (L)	11
Cooling System	
Total coolant capacity (L)	19.7

## ■ 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  $\phi$ .
- 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.



## ■ General Characteristics



Item	Data
Standby Power (kVA)	125
Standby Power (kW)	100
Prime Power (kVA)	113
Prime Power (kW)	90
Power Factor (Cos Phi)	0.8
Diesel Engine	BF4M1013EC G2
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

### ● Power Definition

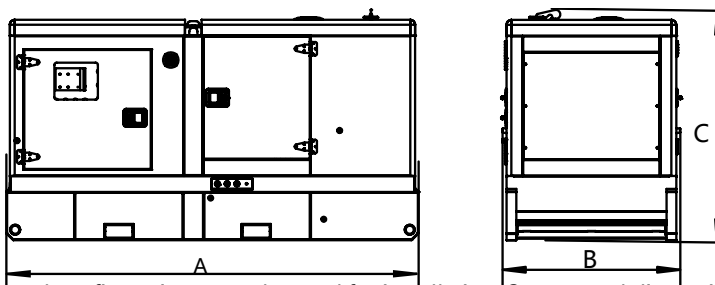
**Standby Power(ESP):** The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

**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 & Fuel Tank



**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
PDL125-O	Open set	2220	1045	1670	1250	210
PDL125-C	Silent set	2850	1100	1650	1825	190

## ■ Engine Data

General Engine Data	
Engine brand	DEUTZ
Engine model	BF4M1013EC G2
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	4-L
Bore and stroke (mm*mm)	108X130
Displacement (L)	4.76
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)	28.7
Fuel Consumption @ 100% load PRP (L/H)	26.1
Fuel Consumption @ 75% load PRP (L/H)	19.3
Fuel Consumption @ 50% load PRP (L/H)	12.9
Air System	
Intake air flow (L/s)	120
Cooling air flow (L/s)	1694
Exhaust System	
Maximum exhaust temperature (°C)	560
Exhaust gas flow (L/s)	340.3
Maximum allowed back pressure (kPa)	3
Starting System	
Starting power(kW)	6
Recommended battery (Ah)	120
Number of Batteries	1
Auxiliary voltage (Vdc)	12
Oil System	
Engine oil capacity (L)	11
Cooling System	
Total coolant capacity (L)	19.7

## ■ 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  $\phi$ .
- 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.

## ■ General Characteristics



Item	Data
Standby Power (kVA)	150
Standby Power (kW)	120
Prime Power (kVA)	138
Prime Power (kW)	110
Power Factor (Cos Phi)	0.8
Diesel Engine	BF4M1013FC
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

### ● Power Definition

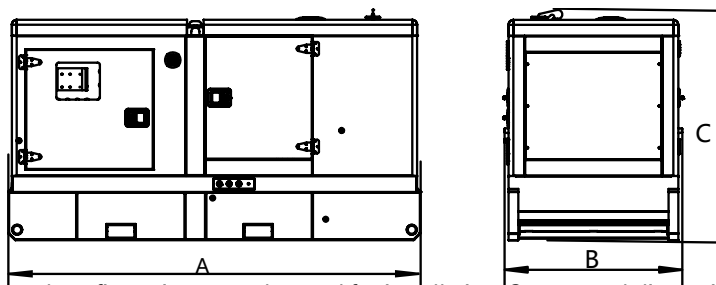
**Standby Power(ESP):** The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

**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 & Fuel Tank



**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
PDL150-O	Open set	2220	1045	1670	1350	210
PDL150-C	Silent set	3050	1100	1832	1825	190

## ■ Engine Data

General Engine Data	
Engine brand	DEUTZ
Engine model	BF4M1013FC
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	4-L
Bore and stroke (mm*mm)	108X130
Displacement (L)	4.76
Cooling system	Water-cooled
Lube oil consumption with full load	0.3%of fuel consumption
Compression Ratio	18:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @ 100% load ESP (L/H)	31.8
Fuel Consumption @ 100% load PRP (L/H)	28.9
Fuel Consumption @ 75% load PRP (L/H)	20.9
Fuel Consumption @ 50% load PRP (L/H)	14
Air System	
Intake air flow (L/s)	204.1
Cooling air flow (L/s)	3200
Exhaust System	
Maximum exhaust temperature (°C)	530
Exhaust gas flow (L/s)	385.8
Maximum allowed back pressure (kPa)	3
Starting System	
Starting power(kW)	6
Recommended battery (Ah)	120
Number of Batteries	1
Auxiliary voltage (Vdc)	12
Oil System	
Engine oil capacity (L)	11
Cooling System	
Total coolant capacity (L)	19.7

## ■ 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  $\phi$ .
- 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.

## ■ General Characteristics



Item	Data
Standby Power (kVA)	200
Standby Power (kW)	160
Prime Power (kVA)	180
Prime Power (kW)	144
Power Factor (Cos Phi)	0.8
Diesel Engine	BF6M1013EC G2
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

### ● Power Definition

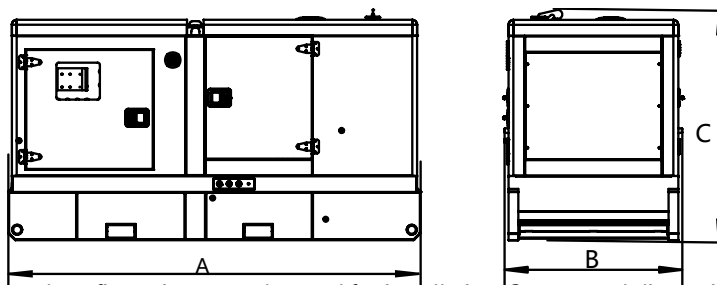
**Standby Power(ESP):** The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

**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 & Fuel Tank



**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
PDL200-O	Open set	2560	1100	1750	1750	330
PDL200-C	Silent set	3320	1100	1650	2400	240

## ■ Engine Data

General Engine Data	
Engine brand	DEUTZ
Engine model	BF6M1013EC G2
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)	43.1
Fuel Consumption @ 100% load PRP (L/H)	39.2
Fuel Consumption @ 75% load PRP (L/H)	29.5
Fuel Consumption @ 50% load PRP (L/H)	19.9
Air System	
Intake air flow (L/s)	177.6
Cooling air flow (L/s)	3000
Exhaust System	
Maximum exhaust temperature (°C)	560
Exhaust gas flow (L/s)	529.2
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)	20
Cooling System	
Total coolant capacity (L)	23.1



## ■ 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  $\phi$ .
- 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.

## ■ 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

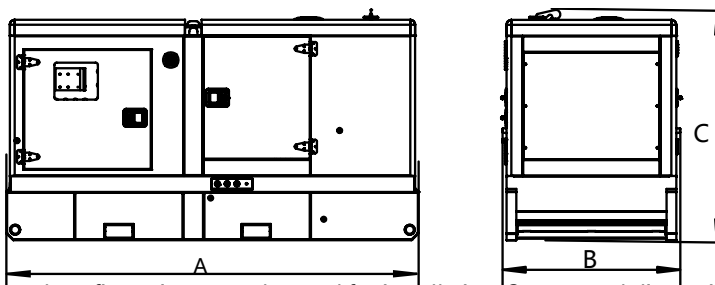
**Standby Power(ESP):** The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

**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 & Fuel Tank



**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  $\phi$ .
- 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.

## ■ General Characteristics



Item	Data
Standby Power (kVA)	275
Standby Power (kW)	220
Prime Power (kVA)	250
Prime Power (kW)	200
Power Factor (Cos Phi)	0.8
Diesel Engine	TCD8.0
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

### ● Power Definition

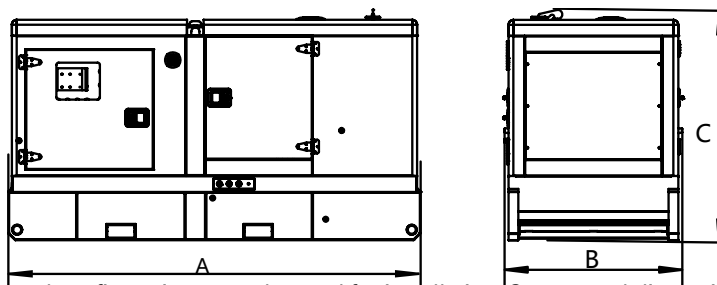
**Standby Power(ESP):** The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

**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 & Fuel Tank



**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
PDL275-O	Open set	2710	1100	1785	1650	380
PDL275-C	Silent set	4100	1430	2080	3600	450

## ■ Engine Data

General Engine Data	
Engine brand	DEUTZ
Engine model	TCD8.0
Engine type	4-stroke diesel
Governor type	Common Rail
Injection type	Direct
Aspiration type	Turbocharged and Air to Air charge cooling
Number of cylinders and arrangement	6-L
Bore and stroke (mm*mm)	110X136
Displacement (L)	7.8
Cooling system	Water-cooled
Lube oil consumption with full load	0.02% of fuel consumption
Compression Ratio	17:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @ 100% load ESP (L/H)	56.8
Fuel Consumption @ 100% load PRP (L/H)	51.6
Fuel Consumption @ 75% load PRP (L/H)	39.9
Fuel Consumption @ 50% load PRP (L/H)	28.1
Air System	
Intake air flow (L/s)	-
Cooling air flow (L/s)	4500
Exhaust System	
Maximum exhaust temperature (°C)	530
Exhaust gas flow (L/s)	707.5
Maximum allowed back pressure (kPa)	5
Starting System	
Starting power(kW)	5
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

## ■ 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  $\phi$ .
- 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.

## ■ General Characteristics



Item	Data
Standby Power (kVA)	330
Standby Power (kW)	264
Prime Power (kVA)	300
Prime Power (kW)	240
Power Factor (Cos Phi)	0.8
Diesel Engine	TCD8.7
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

### ● Power Definition

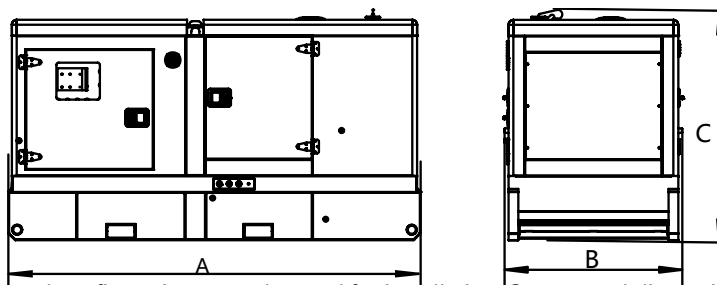
**Standby Power(ESP):** The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

**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 & Fuel Tank



**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
PDL330-O	Open set	2700	1375	2265	2450	720
PDL330-C	Silent set	4150	1550	1800	4000	650



## ■ Engine Data

General Engine Data	
Engine brand	DEUTZ
Engine model	TCD8.7
Engine type	4-stroke diesel
Governor type	Common Rail
Injection type	Direct
Aspiration type	Turbocharged and charge air cooling
Number of cylinders and arrangement	6-L
Bore and stroke (mm*mm)	117X135
Displacement (L)	8.7
Cooling system	Water-cooled
Lube oil consumption with full load	0.1%of fuel consumption
Compression Ratio	17.5:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @ 100% load ESP (L/H)	73.4
Fuel Consumption @ 100% load PRP (L/H)	66.7
Fuel Consumption @ 75% load PRP (L/H)	58.4
Fuel Consumption @ 50% load PRP (L/H)	41.2
Air System	
Intake air flow (L/s)	-
Cooling air flow (m <sup>3</sup> /s)	-
Exhaust System	
Maximum exhaust temperature (°C)	680
Exhaust gas flow (L/s)	417
Maximum allowed back pressure (kPa)	10
Starting System	
Starting power(kW)	7.5
Recommended battery (Ah)	100
Number of Batteries	2
Auxiliary voltage (Vdc)	24
Oil System	
Engine oil capacity (L)	28
Cooling System	
Total coolant capacity (L)	24

## ■ 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  $\phi$ .
- 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.

## ■ General Characteristics



Item	Data
Standby Power (kVA)	360
Standby Power (kW)	288
Prime Power (kVA)	328
Prime Power (kW)	262
Power Factor (Cos Phi)	0.8
Diesel Engine	TCD12.1 G1
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

### ● Power Definition

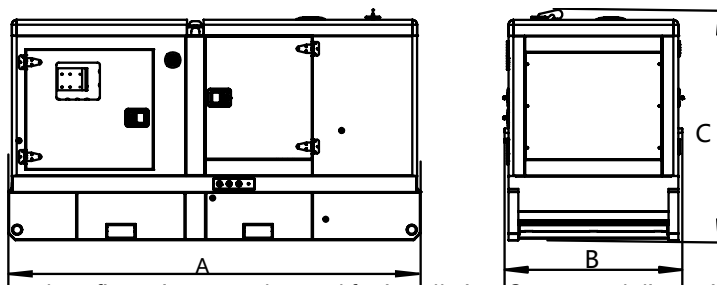
**Standby Power(ESP):** The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

**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 & Fuel Tank



**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
PDL360-O	Open set	2700	1375	2265	1650	720
PDL360-C	Silent set	4250	1650	2515	3600	650

## ■ Engine Data

General Engine Data	
Engine brand	DEUTZ
Engine model	TCD12.1 G1
Engine type	4-stroke diesel
Governor type	Common Rail
Injection type	Direct
Aspiration type	Turbocharged and Charge air cooling
Number of cylinders and arrangement	6-L
Bore and stroke (mm*mm)	131X150
Displacement (L)	12.1
Cooling system	Water-cooled
Lube oil consumption with full load	0.02% of fuel consumption
Compression Ratio	17:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @ 100% load ESP (L/H)	73.6
Fuel Consumption @ 100% load PRP (L/H)	64.6
Fuel Consumption @ 75% load PRP (L/H)	48.8
Fuel Consumption @ 50% load PRP (L/H)	33.6
Air System	
Intake air flow (L/s)	329.4
Cooling air flow (L/s)	10690
Exhaust System	
Maximum exhaust temperature (°C)	511
Exhaust gas flow (L/s)	916.9
Maximum allowed back pressure (kPa)	5
Starting System	
Starting power(kW)	8.8
Recommended battery (Ah)	120
Number of Batteries	2
Auxiliary voltage (Vdc)	24
Oil System	
Engine oil capacity (L)	30
Cooling System	
Total coolant capacity (L)	20 (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  $\phi$ .
- 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.

## ■ General Characteristics



Item	Data
Standby Power (kVA)	400
Standby Power (kW)	320
Prime Power (kVA)	375
Prime Power (kW)	300
Power Factor (Cos Phi)	0.8
Diesel Engine	TCD12.1 G2
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

### ● Power Definition

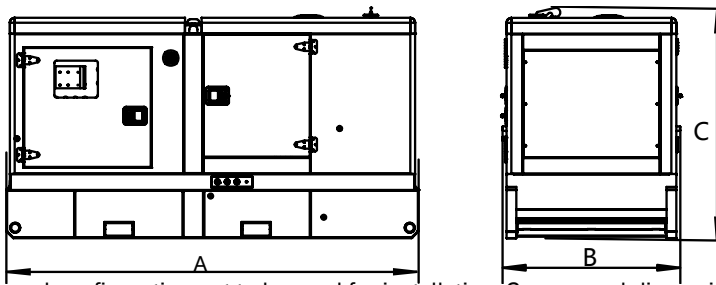
**Standby Power(ESP):** The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

**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 & Fuel Tank



**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
PDL400-O	Open set	2700	1375	2265	-	720
PDL400-C	Silent set	4250	1650	2515	-	650

## ■ Engine Data

General Engine Data	
Engine brand	DEUTZ
Engine model	TCD12.1 G2
Engine type	4-stroke diesel
Governor type	Common rail
Injection type	Direct
Aspiration type	Turbocharged and charge air cooling
Number of cylinders and arrangement	6-L
Bore and stroke (mm*mm)	131X150
Displacement (L)	12.1
Cooling system	Water-cooled
Lube oil consumption with full load	0.02% of fuel consumption
Compression Ratio	17:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @ 100% load ESP (L/H)	83.0
Fuel Consumption @ 100% load PRP (L/H)	76.1
Fuel Consumption @ 75% load PRP (L/H)	57.4
Fuel Consumption @ 50% load PRP (L/H)	39.2
Air System	
Intake air flow (L/s)	-
Cooling air flow (L/s)	10690
Exhaust System	
Maximum exhaust temperature (°C)	523
Exhaust gas flow (L/s)	997.2
Maximum allowed back pressure (kPa)	5
Starting System	
Starting power(kW)	8.8
Recommended battery (Ah)	120
Number of Batteries	2
Auxiliary voltage (Vdc)	24
Oil System	
Engine oil capacity (L)	30
Cooling System	
Total coolant capacity (L)	20(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  $\phi$ .
- 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.



## ■ General Characteristics



Item	Data
Standby Power (kVA)	500
Standby Power (kW)	400
Prime Power (kVA)	450
Prime Power (kW)	360
Power Factor (Cos Phi)	0.8
Diesel Engine	TCD13.0 G1
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

### ● Power Definition

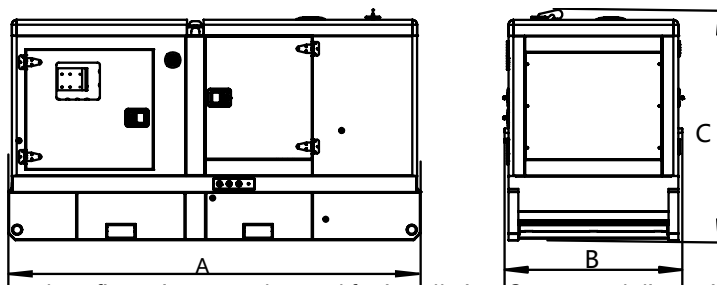
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**Prime Power(PRP):** The prime power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1.

### ● 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 & Fuel Tank



**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
PDL500-O	Open set	3100	1460	2140	3500	850
PDL500-C	Silent set	4362	1750	2515	4500	700

## ■ Engine Data

General Engine Data	
Engine brand	DEUTZ
Engine model	TCD13.0 G1
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	8-V
Bore and stroke (mm*mm)	132X145
Displacement (L)	15.874
Cooling system	Water-cooled
Lube oil consumption with full load	0.3%of fuel consumption
Compression Ratio	16.5:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @ 100% load ESP (L/H)	96.93
Fuel Consumption @ 100% load PRP (L/H)	85
Fuel Consumption @ 75% load PRP (L/H)	66.56
Fuel Consumption @ 50% load PRP (L/H)	43.6
Air System	
Intake air flow (L/s)	-
Cooling air flow (L/s)	10690
Exhaust System	
Maximum exhaust temperature (°C)	540
Exhaust gas flow (L/s)	2320
Maximum allowed back pressure (kPa)	5
Starting System	
Starting power(kW)	9
Recommended battery (Ah)	120
Number of Batteries	2
Auxiliary voltage (Vdc)	24
Oil System	
Engine oil capacity (L)	48
Cooling System	
Total coolant capacity (L)	109

## ■ 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  $\phi$ .
- 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.