

■ General Characteristics



Item	Data
Standby Power (kVA)	880
Standby Power (kW)	704
Prime Power (kVA)	800
Prime Power (kW)	640
Power Factor (Cos Phi)	0.8
Diesel Engine	12V2000G65
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240



● Power Definition

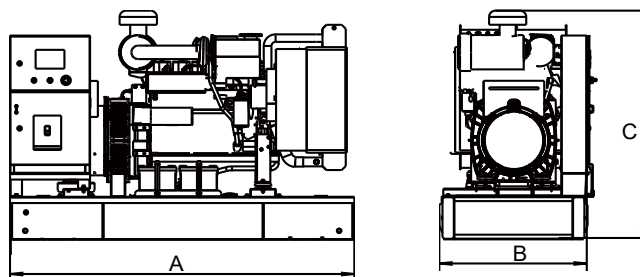
Standby Power(ESP): The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

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
PML880-O	Open set	4300	2050	2200	-	REQ
PML880-P	Silent set	6080	2438	2591	-	REQ

■ Engine Data

General Engine Data	
Engine brand	MTU
Engine model	12V2000G65
Engine type	4-stroke diesel
Governor type	ECU
Injection type	Direct
Aspiration type	Turbocharger and intercooler
Number of cylinders and arrangement	12-V
Bore and stroke (mm*mm)	130X150
Displacement (L)	22.88
Cooling system	Water-cooled
Lube oil consumption with full load	0.5%-1% of fuel consumption
Compression Ratio	16:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @ 100% load ESP (L/H)	-
Fuel Consumption @ 100% load PRP (L/H)	170.2
Fuel Consumption @ 75% load PRP (L/H)	124.2
Fuel Consumption @ 50% load PRP (L/H)	83.5
Air System	
Intake air flow (L/s)	-
Cooling air flow (m ³ /s)	-
Exhaust System	
Maximum exhaust temperature (°C)	565
Exhaust gas flow (L/s)	2500
Maximum allowed back pressure (kPa)	8.5
Starting System	
Starting power(kW)	9
Recommended battery (Ah)	120
Number of Batteries	2
Auxiliary voltage (Vdc)	24
Oil System	
Engine oil capacity (L)	77
Cooling System	
Total coolant capacity (L)	90

■ 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.

■ General Characteristics



Item	Data
Standby Power (kVA)	1000
Standby Power (kW)	800
Prime Power (kVA)	900
Prime Power (kW)	720
Power Factor (Cos Phi)	0.8
Diesel Engine	16V2000G25
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240



● Power Definition

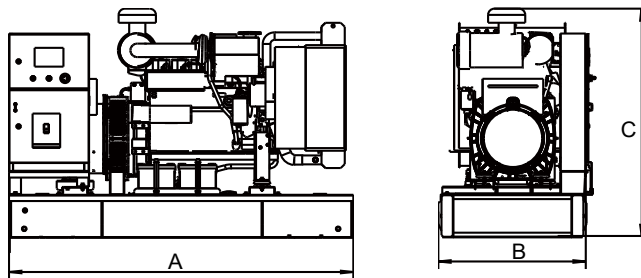
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Prime Power(PRP): The prime power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1.

● 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
PML1000-O	Open set	4300	2050	2200	-	REQ
PML1000-P	Silent set	6080	2438	2591	-	REQ

■ Engine Data

General Engine Data	
Engine brand	MTU
Engine model	16V2000G25
Engine type	4-stroke diesel
Governor type	ECU
Injection type	Direct
Aspiration type	Turbocharger and intercooler
Number of cylinders and arrangement	16-V
Bore and stroke (mm*mm)	130X150
Displacement (L)	31.84
Cooling system	Water-cooled
Lube oil consumption with full load	0.5%-1% of fuel consumption
Compression Ratio	16:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @ 100% load ESP (L/H)	-
Fuel Consumption @ 100% load PRP (L/H)	170.7
Fuel Consumption @ 75% load PRP (L/H)	128
Fuel Consumption @ 50% load PRP (L/H)	87.5
Air System	
Intake air flow (L/s)	-
Cooling air flow (m ³ /s)	-
Exhaust System	
Maximum exhaust temperature (°C)	530
Exhaust gas flow (L/s)	2950
Maximum allowed back pressure (kPa)	8.5
Starting System	
Starting power(kW)	9.5
Recommended battery (Ah)	120
Number of Batteries	2
Auxiliary voltage (Vdc)	24
Oil System	
Engine oil capacity (L)	102
Cooling System	
Total coolant capacity (L)	130

■ 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.

■ General Characteristics



Item	Data
Standby Power (kVA)	1100
Standby Power (kW)	880
Prime Power (kVA)	1000
Prime Power (kW)	800
Power Factor (Cos Phi)	0.8
Diesel Engine	16V2000G65
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240



● Power Definition

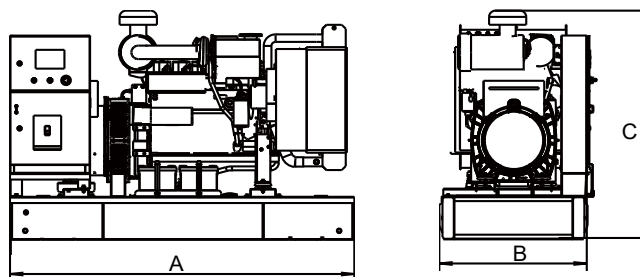
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Prime Power(PRP): The prime power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1.

● 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
PML1100-O	Open set	4350	1900	2200	-	REQ
PML1100-P	Silent set	6080	2438	2591	-	REQ

■ Engine Data

General Engine Data	
Engine brand	MTU
Engine model	16V2000G65
Engine type	4-stroke diesel
Governor type	ECU
Injection type	Direct
Aspiration type	Turbocharger and intercooler
Number of cylinders and arrangement	16-V
Bore and stroke (mm*mm)	130X150
Displacement (L)	31.84
Cooling system	Water-cooled
Lube oil consumption with full load	0.5%-1% of fuel consumption
Compression Ratio	16:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @ 100% load ESP (L/H)	-
Fuel Consumption @ 100% load PRP (L/H)	189.7
Fuel Consumption @ 75% load PRP (L/H)	140.8
Fuel Consumption @ 50% load PRP (L/H)	96.3
Air System	
Intake air flow (L/s)	-
Cooling air flow (m ³ /s)	-
Exhaust System	
Maximum exhaust temperature (°C)	535
Exhaust gas flow (L/s)	3250
Maximum allowed back pressure (kPa)	8.5
Starting System	
Starting power(kW)	9.5
Recommended battery (Ah)	120
Number of Batteries	2
Auxiliary voltage (Vdc)	24
Oil System	
Engine oil capacity (L)	102
Cooling System	
Total coolant capacity (L)	110

■ 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.

■ General Characteristics



Item	Data
Standby Power (kVA)	1250
Standby Power (kW)	1000
Prime Power (kVA)	1125
Prime Power (kW)	900
Power Factor (Cos Phi)	0.8
Diesel Engine	18V2000G65
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240



● Power Definition

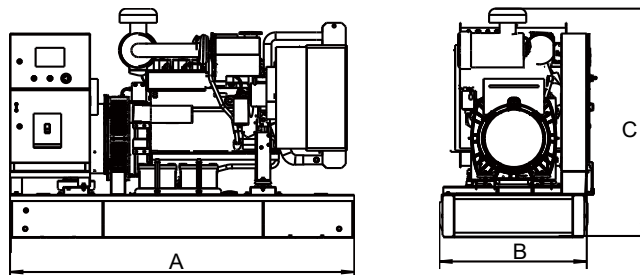
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Prime Power(PRP): The prime power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1.

● 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
PML1250-O	Open set	4460	1900	2325	-	REQ
PML1250-P	Silent set	6080	2438	2591	-	REQ

■ Engine Data

General Engine Data	
Engine brand	MTU
Engine model	18V2000G65
Engine type	4-stroke diesel
Governor type	ECU
Injection type	Direct
Aspiration type	Turbocharger and intercooler
Number of cylinders and arrangement	18-V
Bore and stroke (mm*mm)	130X150
Displacement (L)	35.82
Cooling system	Water-cooled
Lube oil consumption with full load	0.5%-1% of fuel consumption
Compression Ratio	16:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @ 100% load ESP (L/H)	-
Fuel Consumption @ 100% load PRP (L/H)	217.7
Fuel Consumption @ 75% load PRP (L/H)	161.7
Fuel Consumption @ 50% load PRP (L/H)	109.9
Air System	
Intake air flow (L/s)	-
Cooling air flow (m ³ /s)	-
Exhaust System	
Maximum exhaust temperature (°C)	550
Exhaust gas flow (L/s)	4150
Maximum allowed back pressure (kPa)	5
Starting System	
Starting power(kW)	9.5
Recommended battery (Ah)	120
Number of Batteries	2
Auxiliary voltage (Vdc)	24
Oil System	
Engine oil capacity (L)	130
Cooling System	
Total coolant capacity (L)	120

■ 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.

■ General Characteristics



Item	Data
Standby Power (kVA)	1375
Standby Power (kW)	1100
Prime Power (kVA)	1250
Prime Power (kW)	1000
Power Factor (Cos Phi)	0.8
Diesel Engine	18V2000G26F
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

● Power Definition

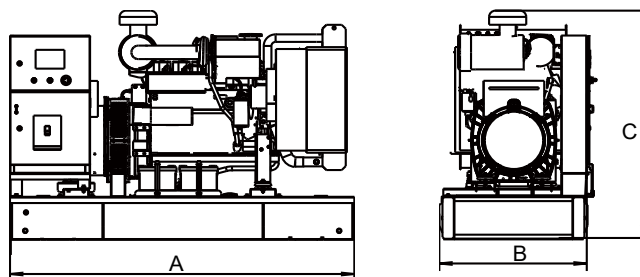
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Prime Power(PRP): The prime power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1.

● 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
PML1375-O	Open set	5000	2060	2200	-	REQ
PML1375-P	Silent set	6080	2438	2896	-	REQ

■ Engine Data

General Engine Data	
Engine brand	MTU
Engine model	18V2000G26F
Engine type	4-stroke diesel
Governor type	ECU
Injection type	Direct
Aspiration type	Turbocharger and intercooler
Number of cylinders and arrangement	18-V
Bore and stroke (mm*mm)	135X156
Displacement (L)	40.2
Cooling system	Water-cooled
Lube oil consumption with full load	0.5%-1% of fuel consumption
Compression Ratio	17.5:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @ 100% load ESP (L/H)	-
Fuel Consumption @ 100% load PRP (L/H)	227.5
Fuel Consumption @ 75% load PRP (L/H)	177.8
Fuel Consumption @ 50% load PRP (L/H)	122.2
Air System	
Intake air flow (L/s)	-
Cooling air flow (m ³ /s)	-
Exhaust System	
Maximum exhaust temperature (°C)	495
Exhaust gas flow (L/s)	4000
Maximum allowed back pressure (kPa)	5
Starting System	
Starting power(kW)	7.5
Recommended battery (Ah)	120
Number of Batteries	2
Auxiliary voltage (Vdc)	24
Oil System	
Engine oil capacity (L)	122
Cooling System	
Total coolant capacity (L)	73

■ 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.

■ General Characteristics



Item	Data
Standby Power (kVA)	1500
Standby Power (kW)	1200
Prime Power (kVA)	1350
Prime Power (kW)	1080
Power Factor (Cos Phi)	0.8
Diesel Engine	12V4000G14RF
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

● Power Definition

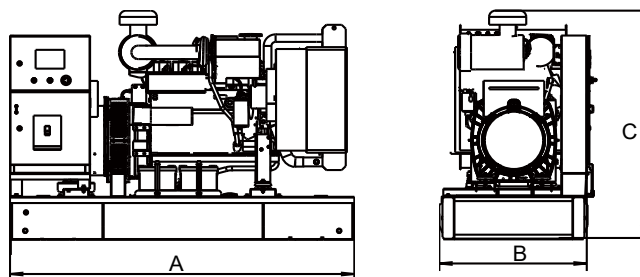
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Prime Power(PRP): The prime power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1.

● 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
PML1500-O	Open set	5000	2270	2450	-	REQ
PML1500-P	Silent set	12192	2438	2896	-	REQ

■ Engine Data

General Engine Data	
Engine brand	MTU
Engine model	12V4000G14RF
Engine type	4-stroke diesel
Governor type	ECU
Injection type	Direct
Aspiration type	Turbocharger and intercooler
Number of cylinders and arrangement	12-V
Bore and stroke (mm*mm)	170X210
Displacement (L)	57.2
Cooling system	Water-cooled
Lube oil consumption with full load	0.5%-1% of fuel consumption
Compression Ratio	16.4:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @ 100% load ESP (L/H)	-
Fuel Consumption @ 100% load PRP (L/H)	244.5
Fuel Consumption @ 75% load PRP (L/H)	189.2
Fuel Consumption @ 50% load PRP (L/H)	131.3
Air System	
Intake air flow (L/s)	-
Cooling air flow (m ³ /s)	-
Exhaust System	
Maximum exhaust temperature (°C)	510
Exhaust gas flow (L/s)	4600
Maximum allowed back pressure (kPa)	8.5
Starting System	
Starting power(kW)	9
Recommended battery (Ah)	120
Number of Batteries	4
Auxiliary voltage (Vdc)	24
Oil System	
Engine oil capacity (L)	160
Cooling System	
Total coolant capacity (L)	260

■ 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.

■ General Characteristics



Item	Data
Standby Power (kVA)	1800
Standby Power (kW)	1440
Prime Power (kVA)	1625
Prime Power (kW)	1300
Power Factor (Cos Phi)	0.8
Diesel Engine	12V4000G23
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

● Power Definition

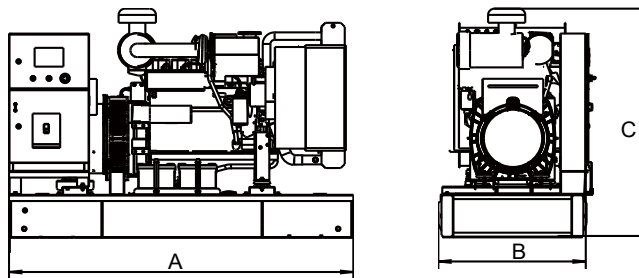
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Prime Power(PRP): The prime power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1.

● 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
PML1800-O	Open set	5650	2200	2565	-	REQ
PML1800-P	Silent set	12192	2438	2896	-	REQ

■ Engine Data

General Engine Data	
Engine brand	MTU
Engine model	12V4000G23
Engine type	4-stroke diesel
Governor type	ECU
Injection type	Direct
Aspiration type	Turbocharger and intercooler
Number of cylinders and arrangement	12-V
Bore and stroke (mm*mm)	170X210
Displacement (L)	57.2
Cooling system	Water-cooled
Lube oil consumption with full load	0.5%-1% of fuel consumption
Compression Ratio	16.4:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @ 100% load ESP (L/H)	-
Fuel Consumption @ 100% load PRP (L/H)	303.6
Fuel Consumption @ 75% load PRP (L/H)	227.7
Fuel Consumption @ 50% load PRP (L/H)	158
Air System	
Intake air flow (L/s)	-
Cooling air flow (m ³ /s)	-
Exhaust System	
Maximum exhaust temperature (°C)	460
Exhaust gas flow (L/s)	4500
Maximum allowed back pressure (kPa)	8.5
Starting System	
Starting power(kW)	9
Recommended battery (Ah)	120
Number of Batteries	4
Auxiliary voltage (Vdc)	24
Oil System	
Engine oil capacity (L)	260
Cooling System	
Total coolant capacity (L)	200

■ 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.

■ General Characteristics



Item	Data
Standby Power (kVA)	2000
Standby Power (kW)	1600
Prime Power (kVA)	1812
Prime Power (kW)	1450
Power Factor (Cos Phi)	0.8
Diesel Engine	12V4000G63
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

● Power Definition

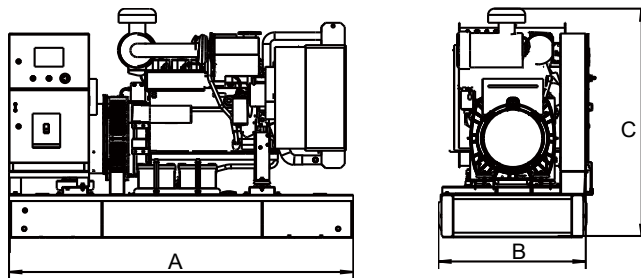
Standby Power(ESP): The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

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
PML2000-O	Open set	5650	2200	2565	-	REQ
PML2000-P	Silent set	12192	2438	2896	-	REQ

■ Engine Data

General Engine Data	
Engine brand	MTU
Engine model	12V4000G63
Engine type	4-stroke diesel
Governor type	ECU
Injection type	Direct
Aspiration type	Turbocharger and intercooler
Number of cylinders and arrangement	12-V
Bore and stroke (mm*mm)	170X210
Displacement (L)	57.2
Cooling system	Water-cooled
Lube oil consumption with full load	0.5%-1% of fuel consumption
Compression Ratio	16.4:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @ 100% load ESP (L/H)	-
Fuel Consumption @ 100% load PRP (L/H)	335.1
Fuel Consumption @ 75% load PRP (L/H)	252.7
Fuel Consumption @ 50% load PRP (L/H)	174.5
Air System	
Intake air flow (L/s)	-
Cooling air flow (m ³ /s)	2
Exhaust System	
Maximum exhaust temperature (°C)	470
Exhaust gas flow (L/s)	5100
Maximum allowed back pressure (kPa)	8.5
Starting System	
Starting power(kW)	9
Recommended battery (Ah)	120
Number of Batteries	4
Auxiliary voltage (Vdc)	24
Oil System	
Engine oil capacity (L)	260
Cooling System	
Total coolant capacity (L)	200

■ 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.

■ General Characteristics



Item	Data
Standby Power (kVA)	2200
Standby Power (kW)	1800
Prime Power (kVA)	2000
Prime Power (kW)	1640
Power Factor (Cos Phi)	0.8
Diesel Engine	16V4000G23
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

● Power Definition

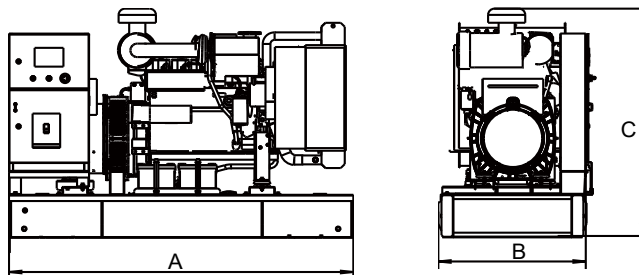
Standby Power(ESP): The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

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
PML2200-O	Open set	5650	2200	2565	-	REQ
PML2200-P	Silent set	12192	2438	2896	-	REQ

■ Engine Data

General Engine Data	
Engine brand	MTU
Engine model	16V4000G23
Engine type	4-stroke diesel
Governor type	ECU
Injection type	Direct
Aspiration type	Turbocharger and intercooler
Number of cylinders and arrangement	16-V
Bore and stroke (mm*mm)	170X210
Displacement (L)	76.3
Cooling system	Water-cooled
Lube oil consumption with full load	0.5%-1% of fuel consumption
Compression Ratio	16.4:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @ 100% load ESP (L/H)	-
Fuel Consumption @ 100% load PRP (L/H)	377.1
Fuel Consumption @ 75% load PRP (L/H)	287.2
Fuel Consumption @ 50% load PRP (L/H)	201.3
Air System	
Intake air flow (L/s)	-
Cooling air flow (m ³ /s)	2.3
Exhaust System	
Maximum exhaust temperature (°C)	485
Exhaust gas flow (L/s)	5800
Maximum allowed back pressure (kPa)	8.5
Starting System	
Starting power(kW)	9
Recommended battery (Ah)	120
Number of Batteries	4
Auxiliary voltage (Vdc)	24
Oil System	
Engine oil capacity (L)	260
Cooling System	
Total coolant capacity (L)	225

■ 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.

■ General Characteristics



Item	Data
Standby Power (kVA)	2500
Standby Power (kW)	2000
Prime Power (kVA)	2250
Prime Power (kW)	1800
Power Factor (Cos Phi)	0.8
Diesel Engine	16V4000G63
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

● Power Definition

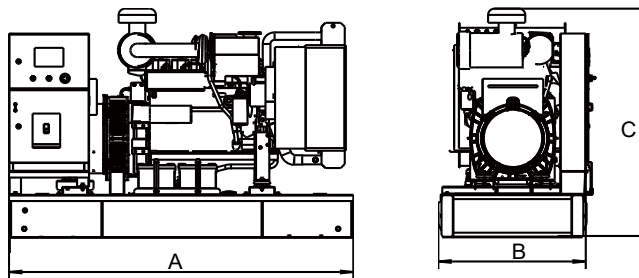
Standby Power(ESP): The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

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
PML2500-O	Open set	6000	2575	2560	-	REQ
PML2500-P	Silent set	12192	2438	2896	-	REQ

■ Engine Data

General Engine Data	
Engine brand	MTU
Engine model	16V4000G63
Engine type	4-stroke diesel
Governor type	ECU
Injection type	Direct
Aspiration type	Turbocharger and intercooler
Number of cylinders and arrangement	16-V
Bore and stroke (mm*mm)	170X210
Displacement (L)	76.3
Cooling system	Water-cooled
Lube oil consumption with full load	0.5%-1% of fuel consumption
Compression Ratio	16.4:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @ 100% load ESP (L/H)	-
Fuel Consumption @ 100% load PRP (L/H)	411.7
Fuel Consumption @ 75% load PRP (L/H)	312
Fuel Consumption @ 50% load PRP (L/H)	218.8
Air System	
Intake air flow (L/s)	-
Cooling air flow (m ³ /s)	2.6
Exhaust System	
Maximum exhaust temperature (°C)	490
Exhaust gas flow (L/s)	6600
Maximum allowed back pressure (kPa)	8.5
Starting System	
Starting power(kW)	9
Recommended battery (Ah)	120
Number of Batteries	4
Auxiliary voltage (Vdc)	24
Oil System	
Engine oil capacity (L)	260
Cooling System	
Total coolant capacity (L)	225

■ 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.

■ General Characteristics



Item	Data
Standby Power (kVA)	2750
Standby Power (kW)	2200
Prime Power (kVA)	2500
Prime Power (kW)	2000
Power Factor (Cos Phi)	0.8
Diesel Engine	20V4000G23
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

● Power Definition

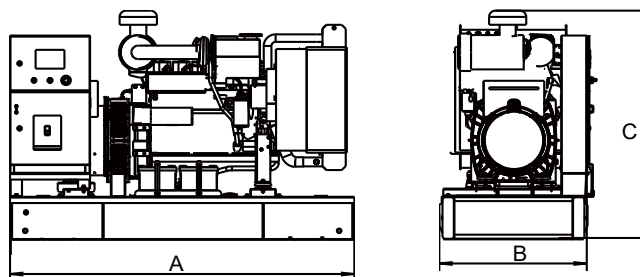
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Prime Power(PRP): The prime power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1.

● 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
PML2750-O	Open set	6500	2600	2560	-	REQ
PML2750-P	Silent set	12192	2438	2896	-	REQ

■ Engine Data

General Engine Data	
Engine brand	MTU
Engine model	20V4000G23
Engine type	4-stroke diesel
Governor type	ECU
Injection type	Direct
Aspiration type	Turbocharger and intercooler
Number of cylinders and arrangement	20-V
Bore and stroke (mm*mm)	170X210
Displacement (L)	95.4
Cooling system	Water-cooled
Lube oil consumption with full load	0.5%-1% of fuel consumption
Compression Ratio	16.4:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @ 100% load ESP (L/H)	-
Fuel Consumption @ 100% load PRP (L/H)	455.1
Fuel Consumption @ 75% load PRP (L/H)	344.9
Fuel Consumption @ 50% load PRP (L/H)	240.7
Air System	
Intake air flow (L/s)	-
Cooling air flow (m ³ /s)	2.65
Exhaust System	
Maximum exhaust temperature (°C)	510
Exhaust gas flow (L/s)	7100
Maximum allowed back pressure (kPa)	8.5
Starting System	
Starting power(kW)	9
Recommended battery (Ah)	120
Number of Batteries	4
Auxiliary voltage (Vdc)	24
Oil System	
Engine oil capacity (L)	390
Cooling System	
Total coolant capacity (L)	255

■ 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.

■ General Characteristics



Item	Data
Standby Power (kVA)	3000
Standby Power (kW)	2400
Prime Power (kVA)	2750
Prime Power (kW)	2200
Power Factor (Cos Phi)	0.8
Diesel Engine	20V4000G63
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

● Power Definition

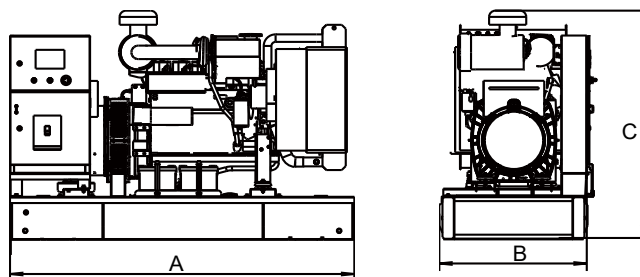
Standby Power(ESP): The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

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
PML3000-O	Open set	6500	2600	2560	-	REQ
PML3000-P	Silent set	12192	2438	2896	-	REQ

■ Engine Data

General Engine Data	
Engine brand	MTU
Engine model	20V4000G63
Engine type	4-stroke diesel
Governor type	ECU
Injection type	Direct
Aspiration type	Turbocharger and intercooler
Number of cylinders and arrangement	20-V
Bore and stroke (mm*mm)	170X210
Displacement (L)	95.4
Cooling system	Water-cooled
Lube oil consumption with full load	0.5%-1% of fuel consumption
Compression Ratio	16.4:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @ 100% load ESP (L/H)	-
Fuel Consumption @ 100% load PRP (L/H)	505.9
Fuel Consumption @ 75% load PRP (L/H)	379.4
Fuel Consumption @ 50% load PRP (L/H)	263.5
Air System	
Intake air flow (L/s)	-
Cooling air flow (m ³ /s)	3
Exhaust System	
Maximum exhaust temperature (°C)	530
Exhaust gas flow (L/s)	8100
Maximum allowed back pressure (kPa)	8.5
Starting System	
Starting power(kW)	9
Recommended battery (Ah)	120
Number of Batteries	4
Auxiliary voltage (Vdc)	24
Oil System	
Engine oil capacity (L)	390
Cooling System	
Total coolant capacity (L)	255

■ 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.

■ General Characteristics



Item	Data
Standby Power (kVA)	3250
Standby Power (kW)	2600
Prime Power (kVA)	3000
Prime Power (kW)	2400
Power Factor (Cos Phi)	0.8
Diesel Engine	20V4000G63L
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

● Power Definition

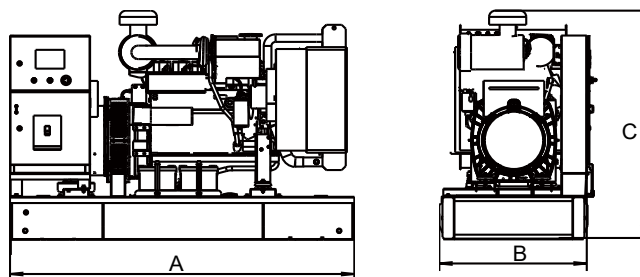
Standby Power(ESP): The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

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
PML3250-O	Open set	6500	2600	2560	-	REQ
PML3250-P	Silent set	12192	2438	2896	-	REQ

■ Engine Data

General Engine Data	
Engine brand	MTU
Engine model	20V4000G63L
Engine type	4-stroke diesel
Governor type	ECU
Injection type	Direct
Aspiration type	Turbocharger and intercooler
Number of cylinders and arrangement	20-V
Bore and stroke (mm*mm)	170X210
Displacement (L)	95.4
Cooling system	Water-cooled
Lube oil consumption with full load	0.5%-1% of fuel consumption
Compression Ratio	16.4:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @ 100% load ESP (L/H)	-
Fuel Consumption @ 100% load PRP (L/H)	557.6
Fuel Consumption @ 75% load PRP (L/H)	409.6
Fuel Consumption @ 50% load PRP (L/H)	283.1
Air System	
Intake air flow (L/s)	-
Cooling air flow (m ³ /s)	3.3
Exhaust System	
Maximum exhaust temperature (°C)	510
Exhaust gas flow (L/s)	8800
Maximum allowed back pressure (kPa)	8.5
Starting System	
Starting power(kW)	9
Recommended battery (Ah)	120
Number of Batteries	4
Auxiliary voltage (Vdc)	24
Oil System	
Engine oil capacity (L)	390
Cooling System	
Total coolant capacity (L)	255

■ 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.