





■ General Characteristics

ltem	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

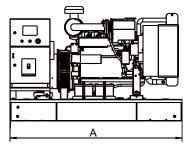
Standby Power(ESP): The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

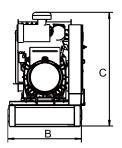
Prime Power(PRP): The prime power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1.

• Terms of use

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

■ Dimensions, weights & FuelTank





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

Model	Constructure	Dim"A"mm	Dim"B"mm	Dim"C"mm	Dry Weight kg	Fuel Tank Capacity L
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.

