

Model:P1375D5

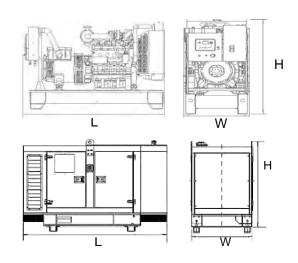
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Output Ratin	ng			
MODEL		Powe	r rating	Voltage available
		PRIME(1)	STANDBY(2)	
P1375D5	400V/50HZ	1000KW	1100KW	380/220V 400/230V 415/240V
	PF:0.8	1250KVA	1375KVA	

General Ir	formation		
Model		P1375D5	
	Engine	4012-46TWG2A	
Speed	d control type	Electronic	
	Phase	3	
Control System		Digital	
System voltage		12V/24V	
Fr	equency	50HZ	
Engine	Speed(RPM)	1500	
Fuel	Standby power(2)	287	
Consumption L/hr	Prime Power(1)	258	
	75% prime power	196	
	50% prime power	141	



D	Dimension and Weight				
	Dimens	ion	Open	Silent	
	Length	(L)	4760mm	12192mm	
'	Width	(W)	2020mm	2438mm	
	Height	(H)	2481mm	2896mm	
	Net Wei	ight	12539KG	20320KG	
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AGG POWER gensets are compliant with EC mark which include the following directives:

- * 2006/42/EC Machinery safety.
- * 2006/95/EC Low voltage
- * EN 60204-1: 2006+A1:2009, EN ISO 12100:2010, EN ISO 13849-1: 2008, EN 12601: 2010

(1)Prime Power(PRP):

According to ISO 8528-1:2005, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operation conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24h of operation shall not exceed 70% of the PRP.

(2) Standby Power (ESP):

According to ISO 8528-1:2005, standby power is the maximum power available during a variable electrical power sequence, under the stated operation conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200h of operation per year with the maintenance intervals and procedures being caried out as prescribed by the manufacturers. The permissible average power output over 24h of operation shall not exceed 70% of the ESP.





Engine Specification

Basic technical data

Number of cylinders
Cylinder arrangement Vee 60°
Cycle
Induction system turbocharged
Combustion system direct injection
Compression ratio
Bore 160 mm
Stroke
Cubic capacity
Direction of rotation Anti clockwise viewed on flywheel
Firing order 1 ^A ,6 ^B ,5 ^A ,2 ^B ,3 ^A ,4 ^B ,6 ^A ,1 ^B ,2 ^A ,5 ^B .4 ^A ,3 ^B
Cylinder 1 furthest from flywheel
Note: Cylinders designated 'A' are on the right hand side of the
engine when viewed from the flywheel end.

Overall dimensions of ElectropaK

Overall difficults of Electropan	
Height	2255 mm
Length	3714 mm
Width	
-temperate	1780 mm
-tropical	1978 mm
Moment of inertia (mk²)	
Moment of inertia (mk²)	
Flywheel	9,57 kgm ²
Engine	9,73 kgm²

Lubrication system

Recommended multigrade oil viscosity (15W40) which adequately meets the specifications of API CH4. For further details refer to the engine OMM.

Lubricating oil capacity

Total system 1	77 litres
Sump maximum	59 litres
Sump minimum	36 litres
Oil temperature at normal operating conditions	. 95 °C
Oil temperature (in rail) - maximum continuous operation	105 °C

Cooling system

Maximum pressure in crankcase water jacket	170 kPa
Maximum top tank temperature (standby)	98 °C
Maximum static pressure on pump	70 kPa
Maximum pressure cap setting	70 kPa

Exhaust system

Outlet size (internal)	x 254 mm
Outlet flange size	10" table D
Back pressure for total system	5 kPa
For recommended pipe sizes, refer to the Installation Manual	

General installation - 4012-46TWG2A (Temperate) 50 Hz @ 1500 rev/min

Decimation	Units -	Type of operation and application		
Designation		Base	Prime	Standby
Gross engine power	kWb	884	1106	1217
Fan and battery charging alternator power	kW		51	· ·
Net engine power	kWm	833	1055	1166
Brake mean effective pressure (gross)	kPa	1543	1930	21,24
Combustion air flow at ISO conditions	m³/min	90	102	109
Exhaust gas temperature (max) after turbo	°C	422		•
Exhaust gas flow (max) at atmospheric pressure	m³/min		230	
Boost pressure ratio	-	2,38	2,86	3,09
Mechanical efficiency	%	88.0	90.2	91.0
Overall thermal efficiency (nett)	%	39.46	39.81	39.66
Friction and pumping power losses	kWm	120		•
Mean piston speed	m/s	9,5		
Engine coolant flow	l/min	948		
Typical CanSat alactrical output (0.9nf)	kVA	989	1253	1385
Typical GenSet electrical output (0.8pf)	kWe	791	1002	1108
Assumed alternator efficiency	%		95	•







Alternator

Alternator		
Poles	Num	4
Winding Connections (standard)		Star-serie
Insulation	Class	H class
Enclosure (according IEC-34-5)		IP23
Exciter System		Brushless
Voltage Regulator		A.V.R. (Electronic)
Bearing		Single bearing
Coupling		Flexible disc
Coating type		Standard (Vacuum impregnation)

Options

Engine	Alternator	Generator Sets	Fuel System	Canopy
Water Jacket Preheater Oil Preheater	Winding Temperature measuring Instrument Alternator Preheater PMG Anti-damp and anti-corrosion treatment Anti-condensation heater	●Tools with the machine	Low fuel level alarm Automatic fuel feeding system Fuel T-valves	●Rental Type Canopy ●Trailer
Lubricating System	Exhaust System	Cooling System	Control Panel	Voltages
●Oil with the machine	●Protection board from hotness	Front heat protectionCoolant (-30°C)	 Remote control panel ATS Remote controller Synchronizing controller 	● 415/240V ● 380/220V ● 220/127V ● 220/127V ● 200-115V







Control Panel



Product description

- Single gen-set controller for Stand-by and Primepower applications
- · Direct communication with EFI engines
- Total remote monitoring and control

Key features

- Easy to install, configure and use
- Wide range of communication capabilities including:
 - connection via RS232, RS485, CAN and on board USB
 - internet access using Ethernet or GPRS
 - support for Modbus and SNMP protocols
- Cloud-based monitoring and control
- Active SMS and emails in different languages
- 2x 5 A binary outputs for cranking and fuel solenoid
- Option for up to 16 additional binary inputs/outputs
- Flexible event based history with up to 350 events
- · Load shedding, dummy load capability
- · Automatic temperature based cooling/heating
- · Comprehensive gen-set protections
- Multipurpose flexible timers
- · True RMS measurement

Available extension modules

Product	Description	Order code
CM-Ethernet	Ethernet interface	CM2ETHERXBX
CM-GPRS	GSM modem / wireless internet	CM2GPRSXXBX
CM-RS232-485	Dual port interface	CM223248XBX
EM-BIO8-EFCP	8 additional binary inputs/outputs	EM2BIO8EXBX

Functions and protections

Description	ANSI code	Descritption	ANSI code
Over voltage	59	Load shedding	32P
Under voltage	27	Overload	32
Voltage asymmetry and Phase rotation**	47	Power factor	55
Over frequency	81H	Temperature	49T
Under frequency	81L	Gas (fuel) level	71
Over current*	50 + 51	Earth fault current	50N + 64
Current unbalance	46		

^{*} Short current only





^{**} Fixed setting