D1000E5 | INDUSTRIAL RANGE POWERED BY DOOSAN







POWER DEFINITION

PRP: Prime Power is abailanle for an unlimited number of annual operating hours in variable load applications, in accordance with ISO 8528-1.

ESP:The standby power rating is applicable for supplying emergency power in variable load applications in accordance with ISO 8528-1.0verload is not allowed

TERMS OF USE

According to the standard, the nominal power assigned by the genset is given for 25 $^{\circ}$ C Air Intlet Temperature, of a barometric pressure of 100 kPA (100 m A.S.L), and 30 % relative humidity. For particular conditions in your installation, refer to the derating table.

TERMS OF USE

For the generating sets used indoor, where the acoustic pressure levels depends on the installation conditions, it is not possible to specify the ambient noise level in the exploitation and maintenance instructions.

You will also find in our exploitation and maintenance instructions a warning concerning the air noise dangers and the need to implement appropriated preventive measures.

SERVICE		PRP	EPS
POWER	kVA	910	1000
POWER	kW	728	800
RATED SPEED	r.p.m	150	00
STANDARD VOLTAGE	1 4	400/	230
AVAILABLE VOLTAGES	V	380/220 ·	415/240
RATED AT POWER FACTOR	Cos Phi	0,8	В

Generator Specification





THREE PHASE



50 HZ

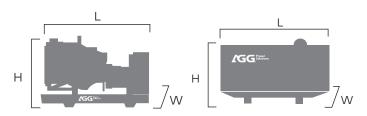


DIESEL



DUAL-WALL FUEL TANK (Optional)

Weight And Dimensions



Dimension		Open	Silent
Length(L)	mm	-	5112
Width(W)	mm	-	2000
Height(H)	mm	-	2535
Net Weight	Kg	-	6749
Fuel Tank	L	-	1050





D1000E5



Engine Specifications

General Engine Data		
Engine brand		DOOSAN
Engine ref.		DP222CC
Engine type		4-stroke diesel
Governor type		ECU
Injection		Direct
Aspiration		TI
Number of cylinders and arrangement		12-V
Bore and stroke	mm	128*142
Displacement	L	21.9
Cooling system		Water-coole <mark>d</mark>

General Engine Data		
Lube oil consumption with full load		%-1% of consumption
Compression Ratio		14.6:1
Engine oil capacity	L	75
Total coolant capacity	L	66
Air Filter	Туре	Dry
Fuel		
Consumption @ 100% load ESP	L/H	213.0
Consumption @ 100% load PRP	L/H	192.0
Consumption @ 75% load PRP	L/H	162.0
Consumption @ 50% load PRP	L/H	110.0



- · Diesel engine
- 4-stroke cycle
- · Water-cooled
- 24V electrical system
- Water separator filter
- Dry air filter
- · Radiator with pusher fan
- · Controlled by ECU
- Hot parts protection
- Moving parts protection
- · Water jacked heater (Optional)
- Radiator water level sensor (Optional)
- Oil heater (Optional)
- Heavy duty air filter (Optional)

Alternator Specifications

Alternator Specifications	
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

Alternator Specifications	
Excitation system	Self-excited, brushless
Voltage regulator	AVR (Electronic)
No. of bearings	Single bearing
Coupling system	Flexible disc
Coating type	Standard (Vacuum impregnation)



- · Self-excited and self-regulated
- IP23 protection
- · H class insulation
- Alternator pre-heater (Optional)
- Winding temp. measuring instrument (Optional)
- PMG/AREP/MAUX (Optional)

D1000E5



Application Data

Fuel system		
Fuel oil specifications		Diesel
Standard fuel tank capacity (Open)	L	TBD
Standard fuel tank capacity (Silent)	L	1050

Exhaust system		
Maximum exhaust temperature	°C	575
Exhaust gas flow	L/s	2450
Maximum allowed back pressure	kPa	5.9

Air system		
Intake air flow	L/s	883
Cooling air flow	L/s	21100

Starting System		
Starting power	kW	7
Recommended batter	Ah	120
Number of Batteries		2
Auxiliary voltage	Vdc	24V

Genset version

- · Steel chasis
- Emergency stop button
- · Anti-vibration shock absorbers
- Trailer type (Optional)
- Chassis with integrated fuel tank
- Fuel level gauge
- High mechanical strength
- Epoxy polyester powder coating
- · Fuel tank drain plug
- Steel residential silencer 20dbA attenuation
- Battery charger
- Dual-wall fuel tank (Optional)

This document is not contractual - The AGG company reserves the right to modify any of the characteristics stated in this document without notice, in a constant effort to improve the quality of its products. *ISO 8528. .

AGG Power gensets are compliant with ISO 9001 and CE standard, 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

Standard reference Conditions

Ambient conditions of reference according to ISO 8528-1:2018 normative: 1000 mbar, 25°C, 30% relative humidity.

Weights and dimensions based on standard products. Illustrations may include optional equipment.

Technical data described in this catalogue correspond to the available information at the moment of printing.

D1000E5



Control Panel Data

Voltage between phases 0 0 0	Features of the Control Panel	Basic Model (Standard)	Advanced Model (Optional)
Voltage between neutral and phase ○ ○ Gurrent intensities ○ ○ Prequency ○ ○ • Apparent power (Kva) ○ ○ • Active prower (Kva) ○ ○ • Reactive power (KVar) ○ ○ • Renary power (KVar) ○ ○ • Power factor ○ ○ • Voltage between phases ○ ○ • Emurgency stop ○ ○ • Binary imputs 8 66 7/7 • Analog inputs 3 3 • 2x-10A Current outputs ○ ○ • 1/0 Configuration ○/o ○/o •			
• Current intensities 0 0 • Frequency 0 0 • Apparent power (Kva) 0 0 • Active power (Kva) 0 0 • Reactive power (Kva) 0 0 • Power factor 0 0 • Voltage between phases 0 0 • Emergency stop 0 0 • Binary inputs 6/6 7/7 • Anolog inpute 3 3 • 2x10A Current outputs 0 — • I/O Configuration 0/0 ○/0 • I/O Configuration 0/0 ○/0 • Speed sensor 0 0 • GEB/MDB 0/0 0/0 • GBM/WBM 0 0 • Speed sensor 0 0 <td< td=""><td></td><td></td><td></td></td<>			
• Frequency	· · · · · · · · · · · · · · · · · · ·		0
• Apprent power (Kva) 0 0 • Active power (KVar) 0 0 • Rescrive power (kVar) 0 0 • Power factor 0 0 • Voltage between phases 0 0 • Emergency stop 0 0 • Analog inputs 3 3 • Analog inputs 3 3 • Pour Configuration 0/0 0/0 • I/O Configuration 0/0 0/0 • I/O Configuration 0 0 • Dr Function 0 0 • Speed sensor 0 0 • GEB/MCB 0/0 0/0 • GEB/MCB 0/0 0/0 • GEB/MCB 0/0 0/0 • Sph current measurement Sen./Mains 0/0 0/0 • Sph voltage measurement Gen./Mains 0/0 0/0 • Sph voltage measurement Gen./Mains 0 0 • Engine protection 0 0 • Engine protection 0 0 • Alternator		0	0
Reactive power (KW) Reactive power (KWr) Reactive power (0	0
• Reactive power (kVAr) ○ ○ • Power factor ○ ○ • Voltage between phases ○ ○ • Emergency stop ○ ○ • Binary inputs 6/8 7/7 • Analog inputs 3 3 • EXIDA Current outputs ○ ─ • I/O Configuration ○/○ ○/○ • Spead sensor ○/○ ○/○ • Configuration ○/○ ○/○ • Amrifyins ○/○ ○/○ • CoB/MCB ○/○ ○/○ • Spead sensor ○/○ ○/○ • CoB/MCB ○/○ ○/○ • Spead sensor ○/○ ○/○ • KW/kW/KW/Kwa ○/○ <td>Apparent power (Kva)</td> <td>0</td> <td>0</td>	Apparent power (Kva)	0	0
• Power factor ○	Active power (Kw)	0	0
• Voltage between phases 0 0 • Emergency stop 0 0 • Binary inputs 5/6 7/7 • Analog inputs 3 3 • 2x10A Current outputs 0 — • I/O Configuration 0/0 0/0 • I/O Configuration 0 0 • De Function 0 0 • Speed sensor 0 0 • GCB/MCB 0/0 0/0 • GCB/MCB 0/0 0/0 • GCB/MCB 0/0 0/0 • 3ph voltage measurement Gen./Meins 0/0 0/0 • 3ph voltage measurement Gen./Meins 0/0 0/0 • 3ph voltage measurement Gen./Meins 0/0 0/0 • KW/xWh/xWa 0 0 0 • Engine reading 0 0 0 • Engine reading 0 0 0 • Eligine protection - x x • History file 150 350 350 • RTC/Battery	Reactive power (kVAr)	0	0
• Emergency stapp ○ ○ ○ ○ ○ ○ ○ 7/7 ○ • Analog inputs 3 2 3 4 4	Power factor	0	0
• Binary inputs 6/6 7/7 • Analog inputs 3 3 • 2x10A Current outputs 0 — • I/O Configuration O/O O/O • D.F Function 0 0 • Speed sensor 0 0 • GCB/MCB O/O O/O • GCB/MCB O/O O/O • 3ph vottage measurement Gen./Mains O/O O/O • 3ph current measurement ○ O • 8 MV/KWh/Kva ○ O • Brigine reading ○ O • Engine protection ○ O • Engine protection ○ O • Earth current protection ○ O • Earth current protection ─ * • RTC/Battery O/─ O/O • PLC ─ ─ • Airgate ─ - • Airgate ─ - • Airgate ─ - • MODBUS IP * *	Voltage between phases	0	0
Analog inputs 2 x10A Current outputs 2 x10A Current outputs 3 3 2 x10A Current outputs 4 D+ Function 5 O O O O O O O O O O O O O O O O O O	Emergency stop	0	0
• 2x10A Current outputs ○ — • I/O Configuration ○/○ ○/○ • D+ Function ○ ○ • Speed sensor ○ ○ • Amf/Mrs ○/○ ○/○ • GCB/MCB ○/○ ○/○ • Sph voltage measurement Gen./Mains ○/○ ○/○ • 3ph current measurement ○ ○ • 8W/KWM/KVa ○ ○ ○ • Engine reading ○ ○ ○ • Engine protection ○ ○ ○ • Engine protection ○ ○ ○ • Earth current protection ○ ○ ○ • Earth current protection ○ ○ ○ • BTC/Battery ○/─ ○/○ ○/○ • RTC/Battery ○/─ ○/○ ○/○ • RTC/Battery ○/─ ○/○ ○/○ • Alignate ─ ─ ─ • EQU CAN ○ ○ ○ • EQU CAN ○ </td <td>Binary inputs</td> <td>6/6</td> <td>7/7</td>	Binary inputs	6/6	7/7
• I/O Configuration O/O O/O • D+ Function O O O • Speed sensor O O O • Amf/Mrs O/O O/O • GCB/MCB O/O O/O • Sph voltage measurement Gen./Mains O/O O/O • Sph current measurement O O O • KW/kWh/Kva O O O • Engine reading O O O • Alternator protection O O O • Earth current protection O O O • Earth current protection O O O • RICC/Battery O/─ O/O • PLC ─ ─ ─ ─ ─ • Airgate ─ ─ * • ECU CAN O O O • MODBUS IP * • SNMP TAAPS ─ ─ * • RS232 * • RS485	Analog inputs	3	3
D+ Function ○ ○ • Speed sensor ○ ○ • Amf/Mrs ○/○ ○/○ • GCB/MCB ○/○ ○/○ • Sph voltage measurement Gen./Mains ○/○ ○/○ • Sph voltage measurement Gen./Mains ○/○ ○ • Sph voltage measurement Gen./Mains ○/○ ○/○ • Sph voltage measurement Gen./Mains ○/○ ○ • Sph voltage measurement Gen./Mains ○/○ ○/○ • W/kW/kW/kWa ○ ○ ○ • Early work file ○ ○ ○ • Engine reading ○ ○ ○ • Alternator protection ○ ○ ○ • Alternator protection ○ ○ ○ • Earth current protection ○ ○ ○ • History file 150 350 • RTC/Battery ○/─ ○/○ • PLC ─ ─ ─ • Alternator protection ○/─ ○/○ ○/○ • RTC/Battery ○/─ ○/─ ○/○ • PLC ─	2x10A Current outputs	0	_
• Speed sensor 0 0 • Amt/Mrs 0/0 0/0 • CCB/MCB 0/0 0/0 • 3ph voltage measurement Gen./Mains 0/0 0/0 • 3ph current measurement 0 0 • KW/kWh/Kva 0 0 • Engine reading 0 0 • Engine protection 0 0 • Alternator protection − ★ • Earth current protection − ★ • History file 150 350 • RTC/Battery 0/− 0/0 • PLC − − • Airgate − ★ • Airgate − ★ • ECU CAN 0 0 • MODBUS IP ★ ★ • SNMP − ★ • SNMP TRAPS − + • RS232 ★ ★ • RS485 ★ ★ • Remote screen ★ ★	• I/O Configuration	0/0	0/0
Amf/Mrs O/O O/O 6 GB/MCB O/O O/O 3 ph voltage measurement Gen./Mains O/O O/O 3 ph current measurement O O 6 kW/kWh/Kva O O Engine reading O O Engine protection O O Earth current protection O O Alternator protection O O Earth current protection O O History file 150 350 RTC/Battery O/─ O/O PLC ─ ─ 4G * ─ 4 Airgate ─ * ECU CAN O O MODBUS * * MODBUS IP * * SNMP TRAPS ─ ─ RS232 * * RS485 * * Remote screen * *	D+ Function	0	0
GCB/MCB O/O O/O 3 ph voltage measurement Gen./Mains O/O O/O 3 ph current measurement O O kW/kWh/kVa O O Engine reading O O Engine protection O O Alternator protection O O Earth current protection O O Earth current protection O O RTC/Battery O/O O/O PLC — — 4G * — Airgate — * ECU CAN O O MODBUS * * MODBUS IP * * SNMP — * SNMP TRAPS — — RS232 * * RS485 * * SGM/GPRS modem * * Remote screen * *	Speed sensor	0	0
• 3ph voltage measurement Gen./Mains O/O O/O • 3ph current measurement O O • kW/kWh/Kva O O • Engine reading O O • Engine protection O O • Alternator protection O O • Earth current protection — * • History file 150 350 • RTC/Battery O/— O/O • PLC — — • 4G * — • Airgate — * • ECU CAN O O • MODBUS * * • MODBUS IP * * • SNMP TRAPS — — • RS232 * * • RS485 * * • GSM/GPRS modem * * • Remote screen * *	Amf/Mrs	0/0	0/0
• 3ph current measurement ○ ○ • kW/kWh/Kva ○ ○ • Engine reading ○ ○ • Engine protection ○ ○ • Alternator protection ○ ○ • History file 150 350 • RTC/Battery ○/─ ○/○ • PLC ─ ─ • Airgate ─ ★ • ECU CAN ○ ○ • MODBUS ★ ★ • MODBUS IP ★ ★ • SNMP ─ ─ • RS232 ★ ★ • RS485 ★ ★ • GSM/GPRS modem ★ ★ • Remote screen ★ ★	• GCB/MCB	0/0	0/0
• kW/kWh/kva ○ ○ • Engine reading ○ ○ • Engine protection ○ ○ • Alternator protection — * • History file 150 350 • RTC/Battery ○/─ ○/○ • PLC — — • Airgate — * • Airgate — * • ECU CAN ○ ○ • MODBUS * * • SNMP — * • SNMP TRAPS — — • RS232 * * • RS485 * * • GSM/GPRS modem * * • Remote screen * *	3ph voltage measurement Gen./Mains	0/0	0/0
Engine reading ○ ○ ○ Engine protection ○ ○ ○ Alternator protection ○ ○ ○ Earth current protection ○ ○ ○ History file ○ 150 ○ 350 RTC/Battery ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	3ph current measurement	0	0
Engine protection O O • Alternator protection O O • Earth current protection — * • History file 150 350 • RTC/Battery O/— O/O • PLC — — • 4G * — • Airgate — * • ECU CAN O O • MODBUS * * • MODBUS IP * * • SNMP — * • SNMP TRAPS — — • RS232 * * • RS485 * * • GSM/GPRS modem * * • Remote screen * *	• kW/kWh/Kva	0	0
• Alternator protection ○ ○ • Earth current protection ─ ★ • History file 150 350 • RTC/Battery ○/─ ○/○ • PLC ─ ─ • 4G ★ ─ • Airgate ─ ★ • ECU CAN ○ ○ • MODBUS ★ ★ • MODBUS IP ★ ★ • SNMP ─ ─ • SNMP TRAPS ─ ─ • RS232 ★ ★ • RS485 ★ ★ • GSM/GPRS modem ★ ★ • Remote screen ★ ★	Engine reading	0	0
• Earth current protection ─ ★ • History file 150 350 • RTC/Battery O/─ O/O • PLC ─ ─ • 4G ★ ─ • Airgate ─ ★ • ECU CAN O O • MODBUS ★ ★ • MODBUS IP ★ ★ • SNMP ─ ─ ─ • SNMP TRAPS ─ ─ ─ • RS232 ★ ★ ★ • RS485 ★ ★ ★ • GSM/GPRS modem ★ ★ ★ • Remote screen ★ ★ ★	Engine protection	VOI OTIAL	
 History file RTC/Battery O/- PLC 4G Airgate ECU CAN MODBUS MODBUS IP SNMP SNMP TRAPS RS232 RS485 RS485 REMOTE SCREEN REMOTE SCREEN REMOTE SCREEN REMOTE SCREEN REMOTE SCREEN MODBUS X X<td>Alternator protection</td><td></td><td></td>	Alternator protection		
• History file 150 350 • RTC/Battery O/─ O/O • PLC ─ ─ • 4G ★ ─ • Airgate ─ ★ • ECU CAN ○ ○ • MODBUS ★ ★ • MODBUS IP ★ ★ • SNMP ─ ★ • SNMP TRAPS ─ ─ • RS232 ★ ★ • RS485 ★ ★ • GSM/GPRS modem ★ ★ • Remote screen ★ ★	Earth current protection	_	*
• RTC/Battery O/─ O/O • PLC ─ ─ • 4G ★ ─ • Airgate ─ ★ • ECU CAN ○ ○ • MODBUS ★ ★ • MODBUS IP ★ ★ • SNMP ─ ★ • SNMP TRAPS ─ ─ • RS232 ★ ★ • RS485 ★ ★ • GSM/GPRS modem ★ ★ • Remote screen ★ ★		150	350
• PLC — — • 4G * — • Airgate — * • ECU CAN O O • MODBUS * * • MODBUS IP * * • SNMP — * • SNMP TRAPS — — • RS232 * * • RS485 * * • GSM/GPRS modem * * • Remote screen * *		0/—	0/0
 Airgate ECU CAN MODBUS MODBUS IP SNMP SNMP TRAPS RS232 RS485 GSM/GPRS modem Remote screen ★ <		_	_
● ECU CAN ○ ○ ● MODBUS * * ● MODBUS IP * * ● SNMP — * ● SNMP TRAPS — — ● RS232 * * ● RS485 * * ● GSM/GPRS modem * * ● Remote screen * *	• 4G	*	_
● ECU CAN ○ ○ ● MODBUS * * ● MODBUS IP * * ● SNMP — * ● SNMP TRAPS — — ● RS232 * * ● RS485 * * ● GSM/GPRS modem * * ● Remote screen * *	Airgate	_	*
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• MODBUS IP * * • SNMP — * • SNMP TRAPS — — • RS232 * * • RS485 * * • GSM/GPRS modem * * • Remote screen * *		*	*
• SNMP — * • SNMP TRAPS — — • RS232 * * • RS485 * * • GSM/GPRS modem * * • Remote screen * *			
• SNMP TRAPS — — • RS232 * * • RS485 * * • GSM/GPRS modem * * • Remote screen * *			
• RS232 * * • RS485 * * • GSM/GPRS modem * * • Remote screen * *		_	
• RS485 * * • GSM/GPRS modem * * • Remote screen * *		*	*
• GSM/GPRS modem			
• Remote screen *			
- GOTOWARD TOLL 1 G			
Standard: O Optional: * Not Available: —			