

Model: F 4 4 D 5

Powered by AGG

Output Rating

MODEL		Power rating		Voltage available
		PRIME(1)	STANDBY(2)	
F44D5	400V/50HZ PF:0.8	32KW 40KVA	35KW 44KVA	380/220V 400/230V 415/240V

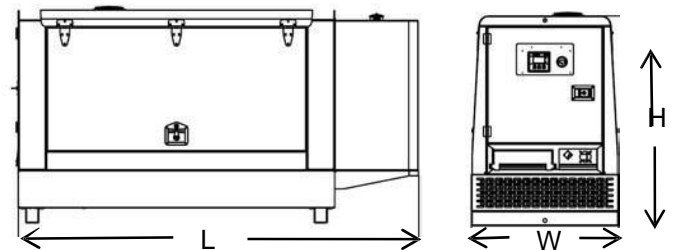
General Information

Model	F44D5	
Engine	AGG 4DX21-53D	
Speed control type	Electronic	
Phase	3	
Control System	Digital	
System voltage	24V	
Frequency	50HZ	
Engine Speed(RPM)	1500	
Fuel Consumption (L/H)	Standby power(2)	12.1
	Prime Power(1)	NA
	75% prime power	NA
	50% prime power	NA



Dimension and Weight

Dimension	Silent	
Length (L)	2220mm	
Width (W)	900mm	
Height (H)	1146mm	
Net Weight	1000kg	



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 carried out as prescribed by the manufacturers. The permissible average power output over 24h of operation shall not exceed 70% of the ESP.

Engine Specification

ENGINE		PRP	STANDBY
Rated Output	kW	39	43
Manufacturer		AGG	
Model		4DX21-53D	
Engine Type		Diesel 4 strokes-cycle	
Injection Type		Direct	
Aspiration Type		Natural	
Cylinders Arrangement		4 - L	
Bore and Stroke	mm	102 x 118	
Displacement	L	3,857	
Cooling System		Liquid (water + 50% glycol)	
Compression Ratio		17,5:1	
Fuel Consumption StandBy	l/h	12,1	
Lube Oil Consumption Full Load		0,8 % of fuel consumption	
Total oil capacity including tubes, filters	L	8	
Heat rejection to coolant	kW	21,5	
Governor	Type	Electrical	
Air Filter	Type	Dry	

Exhaust System

Maximum exhaust temperature	°C	550
Exhaust Gas Flow	m ³ /min	8,3
Maximum allowed back pressure	kPa	6,5
Heat evacuated through exhaust pipe	kW	34,5

Air Inlet System

Intake Air Flow	m ³ /h	156
Cooling Air Flow	m ³ /s	1,2
Alternator fan air flow	m ³ /s	0,197

Starting System

Starting Motor	kW	4,5
Starting Motor	CV	6,12
Recommended Battery Capacity	Ah	70
Auxiliary Voltage	Vcc	24



▪ 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.
Bearing		Single bearing
Coupling		Flexible disc
Coating type		Standard (Vacuum impregnation)

▪ Options

Engine	Alternator	Generator Sets	Fuel System	Canopy
<ul style="list-style-type: none"> •Water Jacket Preheater •Oil Preheater 	<ul style="list-style-type: none"> •Winding Temperature measuring Instrument •Alternator Preheater •PMG •Anti-damp and anti-corrosion treatment •Anti-condensation heater 	<ul style="list-style-type: none"> •Tools with the machine 	<ul style="list-style-type: none"> • Low fuel level alarm •Automatic fuel feeding system •Fuel T-valves 	<ul style="list-style-type: none"> •Rental Type Canopy •Trailer
<ul style="list-style-type: none"> •Oil with the machine 	<ul style="list-style-type: none"> •Protection board from hotness 	<ul style="list-style-type: none"> • Front heat protection • Coolant (-30°C) 	<ul style="list-style-type: none"> •Remote control panel • ATS • Remote controller • Synchronizing controller 	<ul style="list-style-type: none"> • 415/240V • 380/220V • 220/127V • 220/127V • 200-115V



Control Panel: comAp NANO

Functions chart for InteliNano^{NT} models

InteliNano ^{NT} MRS	
Model	MRs
Order code	IN-Nt MRs
binary inputs/outputs	6/4 ¹⁾
Analog inputs	3 ²⁾
AMF function	–
MRs function	
Input configuration	
Output configuration	
Voltage measurement Gen. / Mains	3 ph / –
Current Measurement	–
Voltage autodetect	
Generator protections	
Event log / Running hours history	
Gcb/Mcb control with feedback	/–
D+ battery charging alternator circuit	
Engine hours	
CAN-J1939 interface	
usb communication port	
LCD screen	
Alarm LED	
Weak battery genset starting	
Maintenance warning	
“Zero” power consumption	
Light tower support	
IP65	

Key: ¹⁾ 1 binary input is shared with binary output
²⁾ Analog inputs are shared with binary inputs

