

## Model: F44D5

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

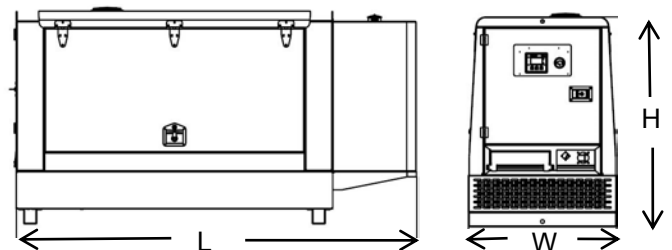
### General Information

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 <sup>3</sup> /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 <sup>3</sup> /h	156
Cooling Air Flow	m <sup>3</sup> /s	1,2
Alternator fan air flow	m <sup>3</sup> /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"> <li>•Water Jacket Preheater</li> <li>•Oil Preheater</li> </ul>	<ul style="list-style-type: none"> <li>•Winding Temperature measuring Instrument</li> <li>•Alternator Preheater</li> <li>•PMG</li> <li>•Anti-damp and anti-corrosion treatment</li> <li>•Anti-condensation heater</li> </ul>	<ul style="list-style-type: none"> <li>•Tools with the machine</li> </ul>	<ul style="list-style-type: none"> <li>• Low fuel level alarm</li> <li>•Automatic fuel feeding system</li> <li>•Fuel T-valves</li> </ul>	<ul style="list-style-type: none"> <li>•Rental Type Canopy</li> <li>•Trailer</li> </ul>
Lubricating System	Exhaust System	Cooling System	Control Panel	Voltages
<ul style="list-style-type: none"> <li>•Oil with the machine</li> </ul>	<ul style="list-style-type: none"> <li>•Protection board from hotness</li> </ul>	<ul style="list-style-type: none"> <li>• Front heat protection</li> <li>• Coolant (-30°C)</li> </ul>	<ul style="list-style-type: none"> <li>•Remote control panel</li> <li>• ATS</li> <li>• Remote controller</li> <li>• Synchronizing controller</li> </ul>	<ul style="list-style-type: none"> <li>• 415/240V</li> <li>• 380/220V</li> <li>• 220/127V</li> <li>• 220/127V</li> <li>• 200-115V</li> </ul>



▪ **Control Panel: comAp NANO**

**Functions chart for InteliNano<sup>NT</sup> models**

	InteliNano <sup>NT</sup> MRS
Model	MRS
Order code	IN-NT MRS
Binary inputs/outputs	6/4 <sup>1)</sup>
Analog inputs	3 <sup>2)</sup>
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:** <sup>1)</sup> 1 binary input is shared with binary output  
<sup>2)</sup> Analog inputs are shared with binary inputs



**Benefits**

- ▶ Supercompact and attractive design
- ▶ Integrated solution – less wiring and external components
- ▶ Standard industrial cutout dimensions
- ▶ The biggest graphical display in its class
- ▶ Language free, on display only symbols and numbers, no translation needed
- ▶ USB communication interface and CAN for outstanding support of EFI engines
- ▶ “Zero” power consumption mode, i.e. extended battery life
- ▶ Weak battery genset starting
- ▶ Event Log (10 events)
- ▶ Easy and user-friendly installation / operation
- ▶ Perfect price / performance ratio
- ▶ USB one cord programming

