

# AF17D6-1P

Industrial Range Powered By AGG

**AGG** Power Solutions



Standards : 2006/42/EC Machinery safety, 2006/95/EC Low voltage, EN 60204-1 : 2006+A1 : 2009, EN ISO 12100 : 2010, EN ISO 8528-13: 2016, EN ISO 13849-1 : 2015, EN 60204-1 : 2018

PRP: Prime power is available 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. overload is not allowed.

Conditions : 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 (100 m A.S.L), and 30 % relative humidity.

## GENERATOR SPECIFICATION

ITEMS	PRP	EPS
Power	16kVA	17kVA
Power	16kW	17kW
Frequency / Phase / Power factor	60Hz / 1P / PF 1.0	
Standard voltage	240V	
Available voltage	240V	



Water-cooled



Single Phase



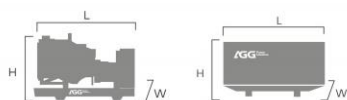
60Hz



Diesel

## GENERAL INSTALLATION

ITEMS	OPEN	SILENT
Dimension(L*W*H) (mm)	1750*620*1200	2018*954*1150
Weight(kg)	585	747
Fuel tank(L)	100	60
Sound pressure level @75% load&1m dB(A) @75% load&7m dB(A)	TBA TBA	



NOTE: Weights and dimensions based on standard products. According to 2000/14/CE , sound data is provided at 7m for 75% prime power. For actual installation, please contact the manufacturer.

## PERFORMANCE DATA

Engine brand	AGG	
Engine model	AF2270-28D	
Fuel	Diesel	
Aspiration	Natural	
Cooling	Water-cooled	
Governor	Electronic	
Cyl arrangement	4L	
Application	Prime & Standby	
Fuel consumption	100% ESP(L/H)	5.17
	100% PRP(L/H)	4.64
	75% PRP(L/H)	3.48
	50% PRP(L/H)	2.45

## ENGINE SPECIFICATION

BASIC DATA	
Engine brand	AGG
Engine model	AF2270-28D
Displacement	2.27L
No. of cyl / arrangement	4L
Bore x stroke	85x95mm
Compression ratio	17.0 : 1
Engine speed	1800rpm
Engine type	4-stroke diesel

EXHAUST SYSTEM	
Exhaust stack gas temperature (max. )	500°C
Exhaust gas flow rate (max. )	4.5 m³/min
Exhaust system backpressure (maximum allowable)	6.7 kPa

FUEL SYSTEM	
Maximum restriction at lift pump	TBA
Max. fuel flow	TBA

COOLING SYSTEM	
Radiator air flow	64.8 m³/min
Total oil capacity	8L
Total coolant capacity	14 L

ELECTRICAL SYSTEM	
Starter motor rated voltage	DC12V
Start battery	60Ah(580CCA)
Battery charging alternator	DC12V/50A

INLET AIR	
Air filter	Dry type
Max. combustion air Intake restriction	6.3kPa
Combustion air inlet flow rate	1.8 m³/min
Max. allowable combustion air inlet temp	50°C

## ALTERNATOR SPECIFICATION

BASIC DATA		BASIC DATA	
Insulation & temperature rise	Class H/H	Type	Brushless
Excitation type	Self-excited	No. of bearings	Single bearing
Winding leads	4	Coupling system	Flexible disc
Winding connections (standard)	Serie	Maximum over speed	2250 RPM
Winding pitch	Two thirds	Coating type	Vacuum impregnation
Number of phase	Single phase	IP rating	IP23

## CONTROL SYSTEM

### Key features

Single generator set control-  
ler can be used in prime or  
standby scenarios



Manual and remote start,  
MRS application



Auto mains failure, AMF  
application



Genset power/frequency/fac-  
tor /voltage/current detection



Engine / alternator / genera-  
tor protections, emergency  
stop



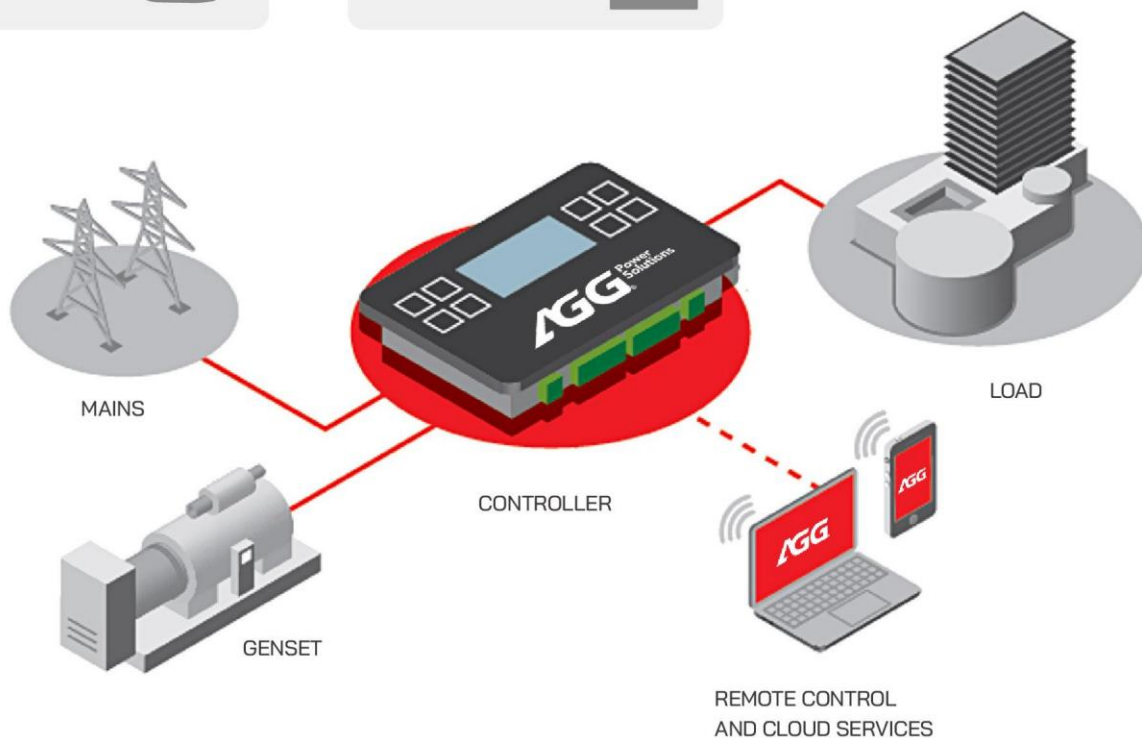
Event log / running hours  
history / maintenance  
warning, LCD screen



User access management,  
software and tools are easy  
to use



Input or output configuration,  
USB communication port



## GENSET VERSION

### STANDARD FEATURES

- ♦ Diesel engine, 50 degrees radiator, brushless alternator
- ♦ Intelligent controller
- ♦ Output circuit breaker (up to 1250A)
- ♦ Maintenance-free start battery, battery charge, battery switch
- ♦ Steel industrial silencer, exhaust bellows and elbows
- ♦ Steel chassis and anti-vibration shock absorbers
- ♦ Lifting and moving structure, expansion of oil and coolant discharge
- ♦ Moving parts protection, hot parts protection
- ♦ Special toolbox, delivery attached documentation



### OPTIONAL FEATURES

#### ENGINE

- ♦ Water jacket preheater
- ♦ Oil Preheater, oil level maintainer, oil manual pump
- ♦ Heavy air filtration
- ♦ Residential silencer
- ♦ Remote radiator, heat exchanger

#### ALTERNATOR

- ♦ PMG/AREP excitation system
- ♦ Anti-condensation heater
- ♦ Winding/bearing RTD
- ♦ Double bearing structure
- ♦ IP44 protection class

#### CONTROL SYSTEM

- ♦ Synchronizing panel, remote control panel
- ♦ RS232/485, 4G & GPS wireless, ethernet communication card
- ♦ Additional digital/analog input/output
- ♦ Monitoring software, mobile APP
- ♦ Ni-Cad batteries

#### GENERATING SET

- ♦ External fuel tank, automatic fuel feeding
- ♦ ATS/output /combining/distribution cabinet
- ♦ Load test cabinet
- ♦ Mobile trailer
- ♦ Customized design

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