

# H220D5

Industrial Range Powered By HYUNDAI

**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	200kVA	220kVA
Power	160kW	176kW
Frequency / Phase / Power factor	50Hz / 3P / PF0.8	
Standard voltage	400/230V	
Available voltage	380/220V · 415/240V	



Water-cooled



Three Phase



50Hz



Diesel

## GENERAL INSTALLATION

ITEMS	OPEN	SILENT
Dimension(L*W*H)(mm)	2600*1055*1790	3900*1216*2212
Weight(kg)	1830	2695
Fuel tank(L)	370L	427L
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	HYUNDAI	
Engine model	P086TI	
Fuel	Diesel	
Aspiration	Turbo charged & Intercooled	
Cooling	Water-cooled	
Governor	Electronic	
Cyl arrangement	6 L	
Application	Prime & Standby	
Fuel consumption	100% ESP(L/H)	48.4
	100% PRP(L/H)	43.1
	75% PRP(L/H)	31.7
	50% PRP(L/H)	21.1

## ENGINE SPECIFICATION

BASIC DATA	
Engine brand	HYUNDAI
Engine model	P086TI
Displacement	8.071 L
No. of cyl / arrangement	6 L
Bore x stroke	111 x 139mm
Compression ratio	16.4 : 1
Engine speed	1500rpm
Engine type	4-stroke diesel

EXHAUST SYSTEM	
Exhaust stack gas temperature (max. )	580 °C
Exhaust gas flow rate (max. )	33.9 m³/min
Exhaust system backpressure (maximum allowable)	5.9 kPa

FUEL SYSTEM	
Maximum restriction at lift pump	60 kPa
Max. fuel flow	230 L/H

COOLING SYSTEM	
Radiator air flow	190 m³/min
Total oil capacity	15.5 L
Total coolant capacity	44 L

ELECTRICAL SYSTEM	
Starter motor rated voltage	DC24V
Start battery	2x100Ah(680CCA)
Battery charging alternator	DC28.5V/45A

INLET AIR	
Air filter	Dry type
Max. combustion air Intake restriction	6.23 kPa
Combustion air inlet flow rate	16.95 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	12	Coupling system	Flexible disc
Winding connections (standard)	Star	Maximum over speed	2250 RPM
Winding pitch	Two thirds	Coating type	Vacuum impregnation
Number of phase	Three 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



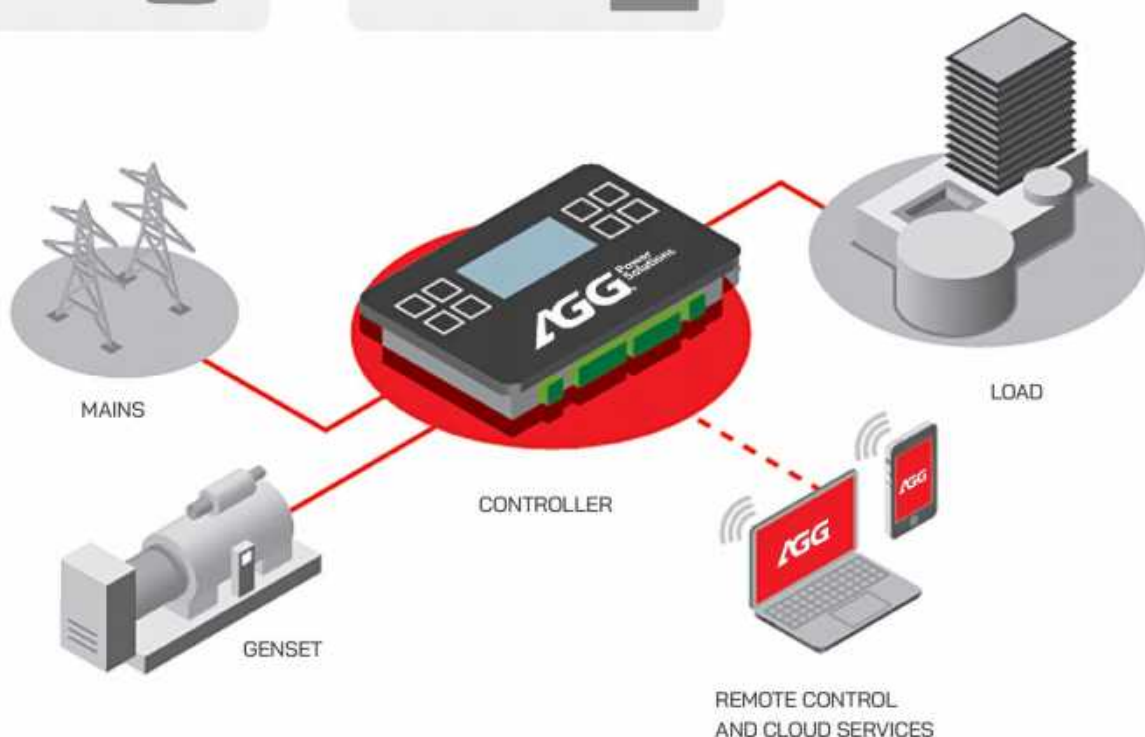
Event log / running hours  
history / maintenance  
warning, LCD screen



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 chasis 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