P18D5-1P

Industrial Range Powered By PERKINS





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, ENISO 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 suppling 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.

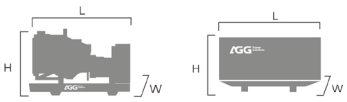
GENERATOR SPECIFICATION

ITEMS	PRP	EPS
Power	16kVA	18kVA
Power	16kW	18kW
Frequency / Phase / Power factor	50Hz / 1P / PF1.0	
Standard voltage	230/115V	
Available voltage	230/115V	

Water-cooled | Single Phase | 50Hz | Diesel

GENERAL INSTALLATION

ITEMS	OPEN	SILENT
Dimension(L*W*H) (mm)	1630*550*1250	1978*794*1150
Weight(kg)	480	750
Fuel tank(L)	85	45
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		PERKINS
Engine model		404A-22G1
Fuel		Diesel
Aspiration		Naturally
Cooling		Water-cooled
Governor		Mechanical
Cyl arrangement		4L
Application		Prime & Standby
Fuel consumption	100% ESP(L/H)	6.1
	100% PRP(L/H)	5.3
	75% PRP(L/H)	4.0
	50% PRP(L/H)	2.9



ENGINE SPECIFICATION

BASIC DATA	
Engine brand	PERKINS
Engine model	404A-22G1
Displacement	2.216 L
No. of cyl / arrangement	4 L
Bore x stroke	84 x 100mm
Compression ratio	23.3 : 1
Engine speed	1500rpm
Engine type	4-stroke diesel

EXHAUST SYSTEM	
Exhaust stack gas temperature (max.)	505 °C
Exhaust gas flow rate (max.)	3.94 m³/min
Exhaust system backpressure (maximum allowable)	10.2 kPa

FUEL SYSTEM	
Maximum restriction at lift pump	10 kPa
Max. fuel flow	63 L/H

COOLING SYSTEM	
Radiator air flow	TBA m³/min
Total oil capacity	10.6 L
Total coolant capacity	7 L

ELECTRICAL SYSTEM	
Starter motor rated voltage	DC12V
Start battery	60Ah(580CCA)
Battery charging alternator	DC12V/15A

INLET AIR	
Air filter	Dry type
Max. combustion air Intake restriction	6.4 kPa
Combustion air inlet flow rate	1.45 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)	Series	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-lercan be used in prime or standby scenarios

Manual and remote start, MRS application

Auto mains failure, AMF application

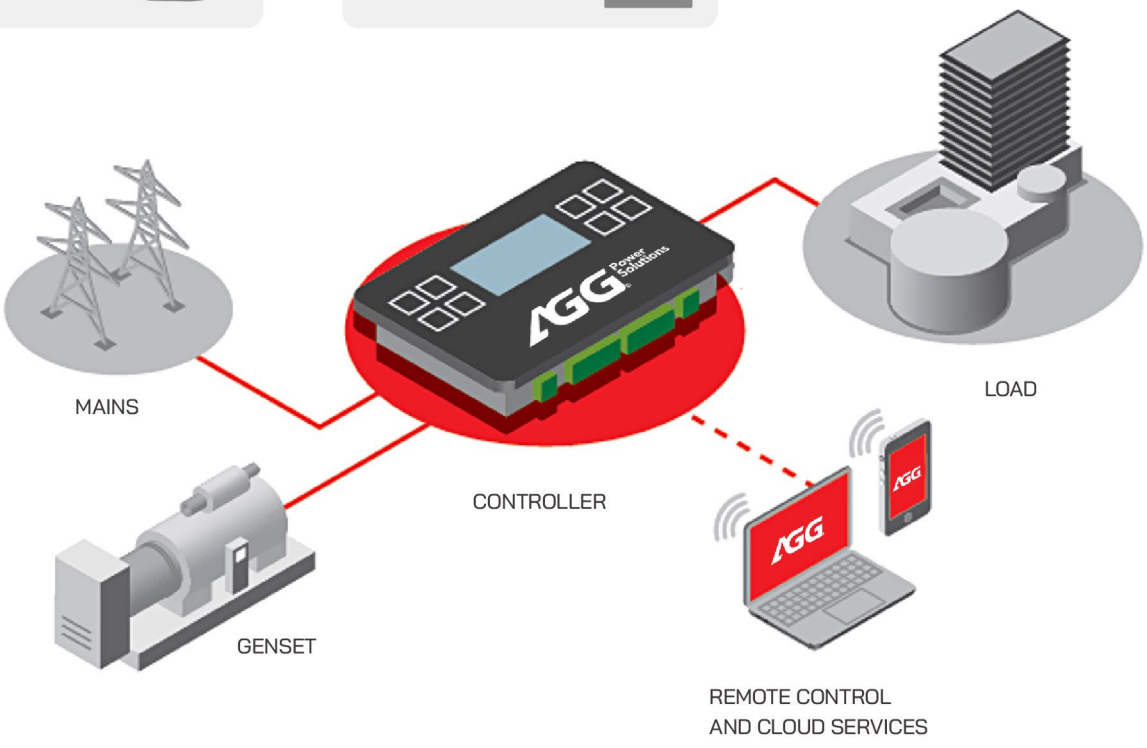
Genset power/frequency/factor /voltage/current detection

Engine / alternator / generator 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 to1250A)
- 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

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