P2500D5 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

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 $25^{\circ}\,$ 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	2250kVA	2500kVA
Power	1800kW	2000kW
Frequency / Phase / Power factor	50Hz / 3P / PF0.8	
Standard voltage	400/230V	
Available voltage	380/220V · 415/240V	



Water-cooled



Three Phase







GENERAL INSTALLATION

ITEMS	OPEN	SILENT
Dimension(L*W*H) (mm)	6000*2294*2688	12050*2438*2896
Weight(kg)	12280	2500
Fueltank(L)	N/A	2000
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.

PERFORMANC	E DATA	
Engine brand		PERKINS
Engine model		4016-61TRG3
Fuel		Diesel
Aspiration		Turbocharged and Aftercooled
Cooling		Water-cooled
Governor		Electronic
Cyl arrangement		16V
Application		Prime & Standby
Fuel consumption	100% ESP(L/H) 100% PRP(L/H) 75% PRP(L/H) 50% PRP(L/H)	529 470 349 246



 $49 \text{ m}^3/\text{s}$

213 L

705 L

4x120Ah(850CCA)

DC24V/55A

ENGINE SPECIFICATION

BASIC DATA		
Engine brand	PERKINS	
Engine model	4016-61TRG3	
Displacement	61.123 L	
No. of cyl / arrangement	16V	
Bore x stroke	160x190mm	
Compression ratio	13:1	
Engine speed	1500rpm	
Engine type	4-stroke diesel	
EXHALIST SYSTEM		

Engine type	4-stroke diesel	
EXHAUST SYSTEM		
Exhaust stack gas temperature (max.)	560 °C	
Exhaust gas flow rate (max.)	525 m³/min	
Exhaust system backpressure (maximum allowable)	4 kPa	
FUEL SYSTEM		

nin	
nin	

3 Bar

1380 L/H

ELECTRICAL SYSTEM	
Starter motor rated voltage	DC24V

COOLING SYSTEM

Radiator air flow

Total oil capacity

Start battery

Battery charging alternator

Total coolant capacity

INLET AIR	
Air filter	Dry type
Max. combustion air Intake restriction	3.7 kPa
Combustion air inlet flow rate	175 m³/min
Max. allowable combustion air inlet temp	50°C

ALTERNATOR SPECIFICATION

Maximum restriction at lift pump

Max. fuel flow

BASIC DATA		BASIC DATA	
Insulation & temperature rise	Class H/H	Туре	Brushless
Excitation type	Self-excited	No. of bearings	Single bearing
Winding leads	6	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 controllercan 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

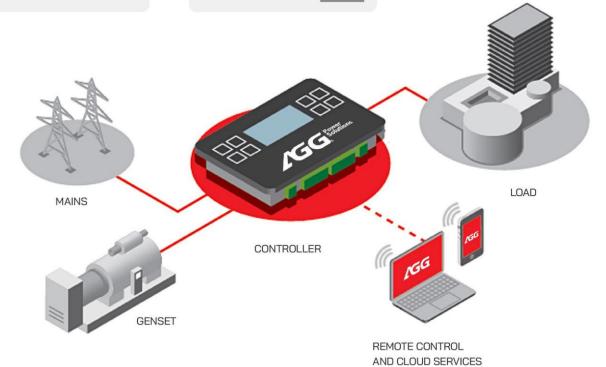


User access management, software and tools are easy to use



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

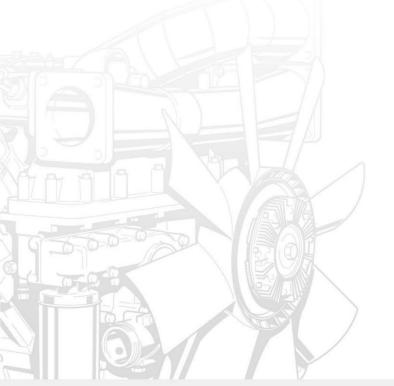












OPTIONAL FEATURES

- Water jacket preheater
- Oil Preheater, oil level maintainer, oil manual pump
- Heavy air filtration
- · Residential silencer
- · Remote radiator, heat exchanger
- PMG/AREP excitation system
- Anti-condensation heater
- ALTERNATOR Winding/bearing RTD
 - Double bearing structure
 - IP44 protection class

CONTROL SYSTEM

ENGINE

- · 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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