V450E5

Industrial Range Powered By VOLVO





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.

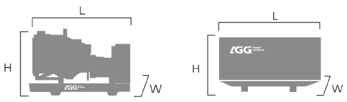
GENERATOR SPECIFICATION

ITEMS	PRP	EPS
Power	400kVA	450kVA
Power	320kW	360kW
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)	2965*1140*1758	4320*1404*2380
Weight(kg)	2550	3700
Fuel tank(L)	600	900
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		VOLVO
Engine model		TAD1344GE-B
Fuel		Diesel
Aspiration		Turbocharged
Cooling		Water-cooled
Governor		ECU
Cyl arrangement		6L
Application		Prime & Standby
Fuel consumption	100% ESP(L/H)	83.4
	100% PRP(L/H)	73.8
	75% PRP(L/H)	55.8
	50% PRP(L/H)	38.1



ENGINE SPECIFICATION

BASIC DATA	
Engine brand	VOLVO
Engine model	TAD1344GE-B
Displacement	12.78L
No. of cyl / arrangement	6L
Bore x stroke	131x158mm
Compression ratio	18.5 : 1
Engine speed	1500rpm
Engine type	4-stroke diesel

EXHAUST SYSTEM	
Exhaust stack gas temperature (max.)	465 °C
Exhaust gas flow rate (max.)	67.5 m³/min
Exhaust system backpressure (maximum allowable)	10 kPa

FUEL SYSTEM	
Maximum restriction at lift pump	30 kPa
Max. fuel flow	120 L/H

COOLING SYSTEM	
Radiator air flow	5.8 m³/s
Total oil capacity	36L
Total coolant capacity	24L

ELECTRICAL SYSTEM	
Starter motor rated voltage	DC24V
Start battery	2x60Ah(720CCA)
Battery charging alternator	DC24V/80A

INLET AIR	
Air filter	Dry type
Max. combustion air Intake restriction	5.0 kPa
Combustion air inlet flow rate	28 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-lercan be used in prime or standby scenarios

Manual and remote start, MRS application

Auto mains failure, AMF application

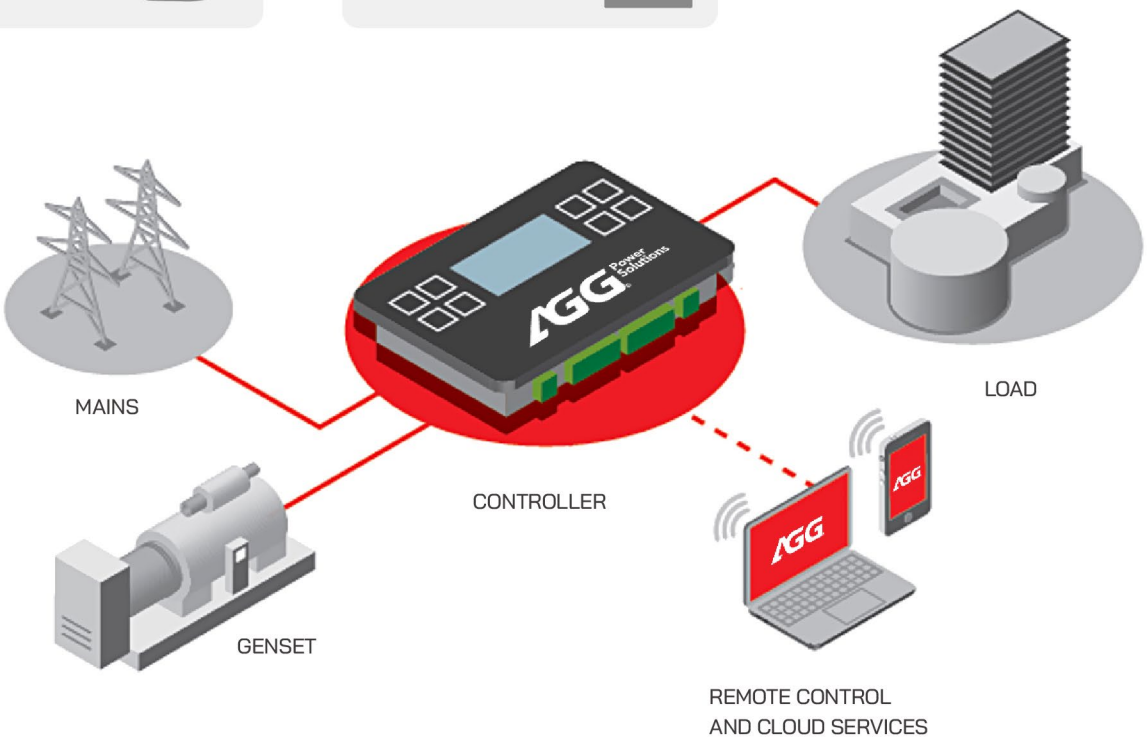
Genset power/frequency/factor /voltage/current detection

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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