

POWER DEFINITION

PRP: Prime Power is suitable for unlimited annual operating hours in applications with varying loads, complying with ISO 8528-1 standards.

ESP: The standby power rating is designed to provide emergency power in applications with fluctuating loads, adhering to ISO 8528-1 guidelines. Overloading is strictly prohibited.

TERMS OF USE

As per the standard, the designated nominal power of the genset is specified for specific conditions, including a 25 °C air inlet temperature, a barometric pressure of 100 kPA (100 m A.S.L), and 30% relative humidity. For installations with different conditions, please consult the derating table provided for accurate adjustments.

In the case of indoor use of generating sets, the ambient noise level cannot be specified in the operation and maintenance instructions due to its dependence on installation conditions. However, our exploitation and maintenance instructions do contain a cautionary notice regarding the potential hazards of air noise and emphasize the importance of implementing suitable preventive measures.

SERVICE		PRP	EPS
POWER	kVA	450	500
POWER	kW	364	400
RATED SPEED	r.p.m	1500	
STANDARD VOLTAGE	V	230/400	
AVAILABLE VOLTAGES	V	380V/220V I 415/240V 440/220V	
RATED AT POWER FACTOR	Cos Phi	0.8	

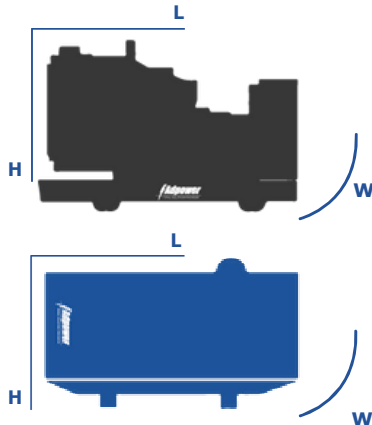
Generator Specification



50 50 Hz



Weight And Dimensions



Dimension		Open	Silent
Length(L)	mm	3900	4500
Width(W)	mm	1100	1600
Height(H)	mm	2220	2350
Net Weight	Kg	3414	2350
Fuel Tank	L	785	785

Engine Specification

Generator Engine Data		Generator Engine Data	
Engine brand	PERKINS	Lube oil consumption with full load	TBD
Engine ref.	2506A-E15TAG1	Compression ratio	16:1
Engine type	4-stroke Diesel	Engine oil capacity	6.2
Governor type (optional)	ISO 8528-5 G3	Total coolant capacity	5.8
Injection	Direct	Air filter (Type)	TBD
Aspiration	Natural		
Number of cylinders and arrangement	6-Vertical in-line		
Bore and stroke (mm)	137 x 171		
Displacement(L)	15.2 liters		
Cooling system	Water-cooled		



- Diesel engine
- 4-stroke cycle
- Water-cooled
- 12V electrical system
- Water separator filter

- Dry Air Filter
- Radiator with pusher fan
- Electronic governor
- Hot parts protection
- Moving parts protection

- Water jacked heater (Optional)
- Radiator water level sensor (Optional)
- Oil heater (Optional)
- Heavy duty air filter (Optional)

Fuel		
Consumption @ 100% load ESP	L / H	105
Consumption @ 100% load (Prime)	L / H	95
Consumption @ 80% load (Prime)	L / H	72
Consumption @ 50% load (Prime)	L / H	50

Alternator Specifications

Alternator Specifications		Alternator Specifications	
Number of Pole	4	Excitation system	Self-Excited, Brushless
Power Factor (Cos Phi)	0.8	Voltage regulator	AVR (Electronic)
Frequency	50Hz	No. of bearings	Single Bearing
Winding Connection (standard)	Star-series	Coupling system	Flexible Disc type
Insulation	H class	Coating type	EG43
Enclosure (according IEC-34-5)	IP23		



- Self-Excited and self-regulated
- IP23 protection
- H class insulation

- Alternator pre-heater (Optional)
- Winding temp. measuring instrument (optional)
- PMG/AREP/MAUX (optional)



Application Data

Fuel System			Exhaust System		
Fuel oil specifications		DI ES EL	Maximum exhaust temperature		TBD
Standard fuel tank capacity (Open)	L	785	Exhaust gas flow		TBD
Standard fuel tank capacity (Silent)	L	785	Engine oil capacity		62

Air System			Starting System		
Intake air flow	L/s	TBD	Starting power	KW	TBD
Cooling air flow	L/s	TBD	Recommended battery	AH	100
			Number of Batteries		2
			Auxiliary voltage	VDC	12

Genset version

- Steel chasis
- Emergency stop button
- Anti-vibration shock absorbers
- Trailer type (Optional)
- Chassis with integrated fuel tank
- Fuel level gauge (Optional)
- High mechanical strength
- Epoxy polyester powder coating
- Fuel tank drain plug
- Steel residential silencer - 20dba attenuation
- Battery charger
- Stackable canopy design

This document is non-binding - The Adpower company reserves the right to make changes to any of the specifications mentioned in this document without prior notice, as part of its continuous efforts to enhance the quality of its products. *ISO 8528.

Adpower gensets adhere to ISO 9001 and CE standards, which encompass the directives listed below:

- Machinery safety (2006/42/EC).
- Low voltage (2006/95/EC).
- EN 60204-1: 2006+A1: 2009, EN ISO 12100: 2010, EN ISO 13849-1: 2008, EN 12601: 2010.

Standard reference conditions:

The ambient conditions considered as reference, as per the ISO 8528-1:2018 standard, are 1000 mbar, 25°C, and 30% relative humidity.

Weights and dimensions are based on standard products, and the illustrations may feature optional equipment.

The technical data provided in this catalog are accurate at the time of printing and reflect the available information.

Standard Reference Conditions

In accordance with the ISO 8528-1:2018 standard, the reference ambient conditions are specified as 1000 mbar pressure, 25°C temperature, and 30% relative humidity.

The weights and dimensions provided are based on standard products, and any illustrations shown may include optional equipment. It is important to note that the technical data described in this catalogue reflects the information available at the time of printing.

