

### 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	ESP
POWER	kVA	100	110
POWER	kW	80	88
RATED SPEED	r.p.m	1500	
STANDARD VOLTAGE	V	400/230	
AVAILABLE VOLTAGES	V	190/110V 200/115V 208/120V 220/127V 380/220V 400/230V 415/240V 440/254V	
RATED AT POWER FACTOR	Cos Phi	0.8	

### Generator Specification



**WATER COOLED**

**50**

**50 Hz**



**DIESEL**

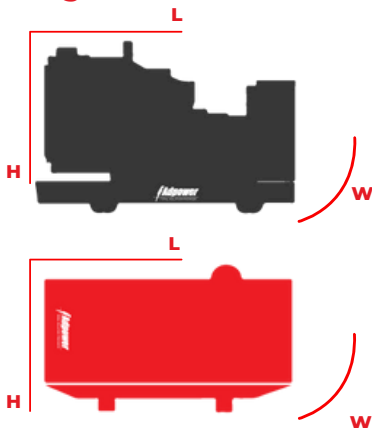


**TERMS OF USE**



**STACKABLE CANOPY**

### Weight And Dimensions



Dimension		Open	Silent
Length(L)	mm	2100	2700
Width(W)	mm	800	1100
Height(H)	mm	1450	1870
Net Weight	Kg	1130	1870
Fuel Tank	L	256	256

## Engine Specification

### Generator Engine Data

Engine brand	FPT/IVECO
Engine ref.	NEF45TM2A.S500
Engine type	4-stroke Diesel
Governor type (optional)	Mechanical
Injection	Direct
Aspiration	Natural
Number of cylinders and arrangement	4-Vertical in-line
Bore and stroke (mm)	104x132
Displacement(L)	4.5 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)

### Generator Engine Data

Lube oil consumption with full load	TBD
Compression ratio	17.5:1
Engine oil capacity	12.8
Total coolant capacity	18.5
Air filter (Type)	TBD

### Fuel

Consumption @ 100% load ESP	L/H	32.0
Consumption @ 100% load (Prime)	L/H	22.0
Consumption @ 80% load (Prime)	L/H	16.2
Consumption @ 50% load (Prime)	L/H	11.0

## Alternator Specifications

### Alternator Specifications MeccAlte

Model Number	ECP34-2S4
Number of Pole	4
Power Factor (Cos Phi)	0.8
Frequency	50Hz
Winding Connection (standard)	Star-series
Insulation	H class
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)

### Alternator Specifications

Excitation system	Self-Excited, Brushless
Voltage regulator	AVR (Electronic)
No. of bearings	Single Bearing
Coupling system	Flexible Disc type
Coating type	EG43



## Application Data

Fuel System			Exhaust System		
Fuel oil specifications		DIESEL	Maximum exhaust temperature		535
Standard fuel tank capacity (Open)	L	256	Exhaust gas flow		TBD
Standard fuel tank capacity (Silent)	L	256	Engine oil capacity		12.8

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		1
			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.

