



## 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     | 45                                                                            | 50  |
| POWER                 | kW      | 36                                                                            | 40  |
| RATED SPEED           | r.p.m   | 1500                                                                          |     |
| STANDARD VOLTAGE      | V       | 400/230                                                                       |     |
| AVAILABLE VOLTAGES    | V       | 190/110V 200/115V 208/120V<br>220/127V 380/220V 400/230V<br>415/240V 440/254V |     |
| RATED AT POWER FACTOR | Cos Phi | 0.8                                                                           |     |

## Generator Specification



**WATER  
COOLED**

**50**

**50 H z**



**DIESEL**

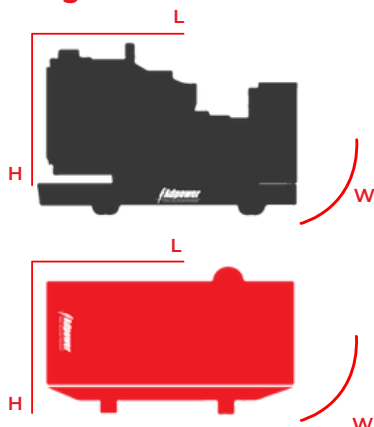


**TERMS  
OF USE**



**STACKABLE  
CANOPY**

## Weight And Dimensions



| Dimension  |    | Open | Silent |
|------------|----|------|--------|
| Length(L)  | mm | 1860 | 2310   |
| Width(W)   | mm | 760  | 1000   |
| Height(H)  | mm | 1400 | 1500   |
| Net Weight | Kg | 960  | 1350   |
| Fuel Tank  | L  | 110  | 110    |

## Engine Specification

| Generator Engine Data               |                    |
|-------------------------------------|--------------------|
| Engine brand                        | FPT/IVECO          |
| Engine ref.                         | NEF45AM1A.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)

## Alternator Specifications

| Alternator Specifications     | MeccAlte    |
|-------------------------------|-------------|
| Model Number                  | ECP 32-2S   |
| 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)

| 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 | 12.58 |
| Consumption @ 100% load (Prime) | L/H | 11.3  |
| Consumption @ 80% load (Prime)  | L/H | 9.2   |
| Consumption @ 50% load (Prime)  | L/H | 6.4   |



## Application Data

### Fuel System

Fuel oil specifications DIESEL

Standard fuel tank capacity (Open) L 110

Standard fuel tank capacity (Silent) L 110

### Air System

Intake air flow L/s TBD

Cooling air flow L/s TBD

### Exhaust System

Maximum exhaust temperature 483

Exhaust gas flow TBD

Engine oil capacity 12.8

### Starting System

Starting power KW TBD

Recommended batterie AH 70

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.

