



POWERGEN 455



These illustrations are for Reference only*

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 | 455 | 500 |
| POWER | kW | 364 | 400 |
| RATED SPEED | r.p.m | 1500 | |
| STANDARD VOLTAGE | V | 230/400V | |
| AVAILABLE VOLTAGES | V | 380V/220V 415/240V 440/220V | |
| RATED AT POWER FACTOR | Cos Phi | 0.8 | |

Generator Specification



WATER COOLED



50 50 Hz



DIESEL

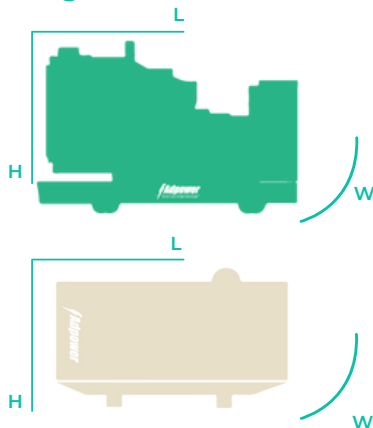


TERMS OF USE



STACKABLE CANOPY

Weight And Dimensions



| Dimension | | Open | Silent |
|------------|----|------|--------|
| Length(L) | mm | 3750 | 4700 |
| Width(W) | mm | 1120 | 1700 |
| Height(H) | mm | 2030 | 2500 |
| Net Weight | Kg | 3777 | 4610 |
| Fuel Tank | L | 785 | 785 |

Engine Specification

| Generator Engine Data | |
|-------------------------------------|-------------------------|
| Engine brand | CUMMINS |
| Engine ref. | QSZI3G5 |
| Engine type | 4-stroke Diesel |
| Governor type (optional) | Electronic |
| Injection | Cummins PT Pump, Direct |
| Aspiration | Natural |
| Number of cylinders and arrangement | 6-Vertical in-line |
| Bore and stroke (mm) | 130 x 163 |
| Displacement(L) | 13 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 | - |
| Engine oil capacity | 78 |
| Total coolant capacity | 62 |
| Air filter (Type) | TBD |

Fuel

| | | |
|---------------------------------|-----|-------|
| Consumption @ 100% load ESP | L/H | 102.3 |
| Consumption @ 100% load (Prime) | L/H | 93 |
| Consumption @ 75% load (Prime) | L/H | 70 |
| Consumption @ 50% load (Prime) | L/H | 49 |

Alternator Specifications

| Alternator Specifications | |
|-------------------------------|-------------|
| Number of phase | 3 |
| power Factor (Cos Phi) | 0.8 |
| Poles/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 |
| Excitation system | AVR |
| No. of bearings | Single Bearing |
| Coupling system | Flexible Disc |
| Coating type | Standard (Vacuum impregnation) |

Application Data

Fuel System

| | | |
|--------------------------------------|--------|-----|
| Fuel oil specifications | DIESEL | |
| Standard fuel tank capacity (Open) | L | 785 |
| Standard fuel tank capacity (Silent) | L | 785 |

Air System

| | | |
|------------------|-----|-----|
| Intake air flow | L/s | TBD |
| Cooling air flow | L/s | TBD |

Exhaust System

| | | |
|-----------------------------|-----|--|
| Maximum exhaust temperature | TBD | |
| Exhaust gas flow | TBD | |
| Engine oil capacity | 78 | |

Starting System

| | | |
|---------------------|-----|-----|
| Starting power | KW | TBD |
| Recommended battery | AH | 120 |
| Number of Batteries | 2 | |
| Auxiliary voltage | VDC | 12 |

Genset version

- Steel chassis
- 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.

