

Perkins 100 KVA Diesel Datasheet

Output Ratings

- Generating Set Model:
 - 230-400V 50Hz
 - 270/480V 60Hz

Prime

100 kVA / 80 kW

112 KVA/ 90 KW

- Standby:
 - 110 kVA / 88 kW
 - 125 kVA / 100 kW
- Ratings at 0.8 power factor

Prime Rating

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

Standby Rating

These ratings are applicable for supplying continuous power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO 8528-3).

Ratings and Performance Data

- Engine Make: PERKINS
- Engine Model: 1104C-44TAG2
- Alternator Make: Meccalte Italy
- Control Panel Make: DSE/ Meccalte
- Control Panel Model: 6230 MK3/ TE809

- Circuit Breaker Make: Chnt
- Circuit Breaker Type: 3 Pole MCCB
- Base Frame: Heavy Duty Fabricated Steel
- Engine Speed: 1500 RPM (50Hz), 1800 RPM (60Hz)
- Frequency: 50Hz, 60Hz
- Fuel Consumption: 11.2 L/h at 50%, 22.6 L/h at 100%

Soundproof

enclosure fabricated by heavy duty sheet of steel insulated with high density ROCK WOOL* (60 kg /m³) sheet 2.25mm, insulating material thickness 100mm, heavy duty silencer installed in the sound enclosure for better protection and better sound insulation, equipped with doors & locks. The fan and fan drive are fully guarded for personnel protection

Durable and Robust Construction

- High grade steel protected by powder coat paint.
- Single piece roof structure.
- Black finish stainless steel locks and hinges.
- Zinc plated / stainless steel fasteners.

Security and Safety

- Emergency stop push button mounted on enclosure.
- Cooling fan and battery charging alternator fully guarded.
- Fuel fill and battery can only be reached via lockable access doors.
- Exhaust silencing system totally enclosed for operator safety.

Excellent Service and Maintenance Access

- Side hinged doors on both sides of the enclosure opening to 180 degrees.
- Removable front and rear access panels.
- Oil drain piped to baseframe exterior to the enclosure.

Transportability

- Tested and certified single point lifting facility.
- Drag points on baseframe facilitating handling from both sides.
- Base feet to aid forklift handling.

Dimensions and Weights (Basic Genset)

- Dimensions: L 1250 cm x W 600 cm x H 1000 cm
- Fuel Tank Capacity: 118 L

Dimensions and Weights (SoundProof)

- Dimensions: L 2911 mm x W 1537 mm x H 1116 mm
- Fuel Tank Capacity: 118 L

Weight: 1537 KG

Documentation

A full set of operation and maintenance manuals and circuit wiring diagrams.

Generating Set Standards

The equipment meets the following standards: BS5000, ISO 8528, ISO 3046, IEC 60034, NEMA MG-1.22.

Warranty

The products are warranted against defects in material and workmanship for a period of 1000 hours or 12 months (PERKINS WARRANTY), whichever comes first, from the date of delivery to the first user. Ensuring initial startup is performed by an authorized representative of Hassanein Co. or its dealers. Installing, operating, and maintaining the generator set in accordance with the manufacturer's instructions.