

Power Your Future Isuzu Diesel Generator

Engine Ratings 45KVA

Generating Power Solutions

Increased availability for new operations

Reliable, robust and versatile generator.
Ready to deliver power for a next job.

Increased uptime during operations

Once installed on the end-user-site, the generator will be ready to run: "peace of mind" operation.

Reduced transport and installation costs

The compact and robust design with integrated transport features enables faster and safer transport and installation.

Reduced service & maintenance costs

Longer service intervals.
Quicker and more efficient service jobs.

Premium resale value

Designed and built to last.

ISUZU
ENGINE DATA
Engine Model: JE493ZLDB-02
Induction: Intercooler Turbo



MAJOR COMPONENTS

A comprehensive technical overview of the complete generator set.

PERFORMANCE DATA
Speed Rate: 1500 RPM
Prime Power: 45 kVA (38 kW)
Standby Power: 50 kVA (42 kW)
(Rated Output' and 'Maximum Output')

UHU STAMFORD ALTERNATOR DATA
Model: Stamford Type Voltage Regulation: $\pm 1\%$
Phase: 3 Protection: IP 23
Voltage: 400/230 V Insulation: Class H

DSE

- CONTROL PANEL: DSE4520
- FUEL SYSTEM (Prime Power):
- 100% load: 6.5 L/h
- 75% load: 4.7 L/h
- COOLANT & LUBE OIL:
- Lube Oil Capacity: 5.6 Liters
- Coolant Capacity: 4.5 L - 5

Generator Set Technical Data

PARAMETER	VALUE
Parameter	Value
Model	UI45
Rated prime power	45 kVA
Rated standard power	50 kVA
Rated voltage	400/230 V
Rated frequency	50 Hz

Engine (ISUZU)

PARAMETER	VALUE
Model	JE493ZLDB-02
Aspiration	Intercooler Turbo
No. of cylinders	4 In Line
Displacement	2.771
Bore*Stroke	93*102 mm
Compression ratio	18.2:1
Rated speed r/min	1500
Rated Output	38 kW
Maximum Output	42 kW
Governor type	Mechanical
Starting Motor	12 V/2.8 kW

Alternator (UHU) Stamford Type

PARAMETER	VALUE
Parameter	Value
Phase	3
Voltage	400/230 V
Wiring Type	3 Phase 4 wire, Y type
Bearing	1
Power factor	0.8
Frequency	50 Hz
Exciter Type	Brushless, self-excitation
Voltage regulation	±1%
Protection Grade	IP 23
Insulation grade	Class H
Altitude	≤1000

Controller – DEEPSEA

PARAMETER	VALUE
Model	DSE4520
Protective functions	• Low oil pressure • High water temperature • Exhaust System High/low voltage • Engine Temperature and Overspeed • Voltage regulator frequency regulator • Emergency stop • Start failure

Alternator (UHU) Stamford Type

PARAMETER	VALUE
Exhaust gas temp	< 500 C
Max back pressure	15 kPA

Fuel System

PARAMETER	VALUE
100% load (Prime power)	6.5 L/h
75% load (Prime power)	4.7 L/h
50% load (Prime power)	3.1 L/h
Fuel tank capacity	80 L

Lubrication System

PARAMETER	VALUE
Oil capacity	5.6 L
Oil type	≥API CF-4
Oil pressure (continuous operation)	0.1 - 0.50

Cool System

PARAMETER	VALUE
Coolant capacity	4.5 L - 5
Thermostat operation range	82-95
Max water temperature	85 ± 10



ISUZU SERIES 20 KVA TO 60 KVA

Warranty*

24 months or 1800 Hours (whichever occurs first)

Safety

- Operate safely in accordance with proper operation manual.
- To prevent trouble and accidents, perform daily and preventive maintenance checks without fail.