We bring Power to your Life

UJD33

U Power Generation System

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UJD33

INTRODUCTION

U Power Generation system, providing optimum performance, and reliability, for stationary standby, prime power, and continuous duty applications. All generator sets are factory build, and production tested.

Power (kVA)

3 Phase, 50 Hz, PF 0.8

VOLTAGE	STANDBY RATING		PRIME RATING (PRP)		STANDBY AMPER
	kW	kVA	kW	kVA	
400/231	26,40	33	22.4	28	47.63

STANDBY RATING (ESP) Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. ESP is in accordance with ISO 8528. Overload is not allowed.

PRIME RATING (PRP) Applicable for supplying power to varying electrical load for unlimited hours. PRP is in accordance with ISO 8528. 10 % overload capability is available for a period of 1 hour within 12-hour perod of operation,in accordance with ISO 3046.

General Characteristics

Model Name	UJD 33
Frequency (Hz)	50
Fuel Type	Diesel
Engine Made and Model	John Deere 3029 DF 129
Alternator Made and Model	ECP 28-VL / 4 A
Control Panel Model	7320
Canopy	UP 20

Engine Specifications

Engine	John Deere
Engine Model	3029 DF 129
Number of Cylinder (L)	3 cylinders - in line
Bore (mm.)	106
Stroke (mm.)	110
Displacement (lt.)	2.9
Aspiration	Naturally Aspirated
Compression Ratio	17.2:1
RPM (d/dk)	1500

Oil Capacity (Total With Filter) (lt)	5
Standby Power	31/41
Prime Power	27/36
Block Heater QTY	1
Block Heater Power (Watt)	500
Fuel Type	Diesel
Injection Type and System	Direct
Type of Fuel Pump	Stanadyne DB2 Rotary Type
Governor System	Mechanic
Operating Voltage (Vdc)	12 Vdc
Battery and Capacity (Qty/Ah)	1x55
Charge Alternator (A)	-
Cooling Method	Water Cooled
Cooling Fan Air Flow (m^3/min)	81
Coolant Capacity (engine only / with radiator) (lt)	5.7/15.50
Air Filter	Dry Type
Fuel Cons. Prime With %100 Load (lt/hr)	5.8
Fuel Cons. Prime With %75 Load (lt/hr)	4.4
Fuel Cons. Prime With %50 Load (lt/hr)	3.1

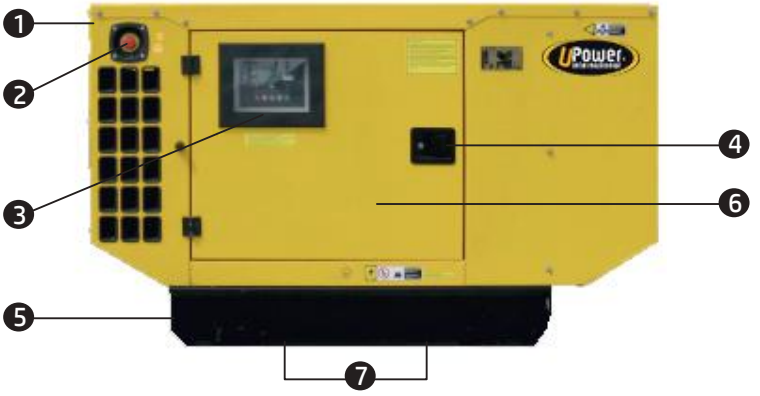
Alternator Characteristics	
Manufacturer	Mecc Alte
Alternator Brand and Model	ECP 28-VL / 4 A
Frequency (Hz)	50
Power (kVA)	30
Voltage (V)	400
Phase	3
A.V.R.	DSR
Voltage Regulation	(+/-)1%
Insulation System	H
Protection	IP23
Rated Power Factor	0.8
Weight Wound Rotor (Kg)	33.4
Cooling Air (m^3/min)	5.3

Open Gen.Set Dimensions (mm)	
Lenght	-
Width	-
Height	-
Dry Weight (kg)	720
Tank Capacity (lt)	70

UJD33

Lenght (mm)	Width (mm)	Height (mm)	Dry. Weight (kg)	Tank Capacit (lt)
2100	960	1440	900	70

1. Steel structures
2. Emergency stop push button
3. Control panel is right side of the set
4. Corrosion resistant locks and hinges
5. Sump drains valves
6. Sound proof foam metarial
7. Base frame tank

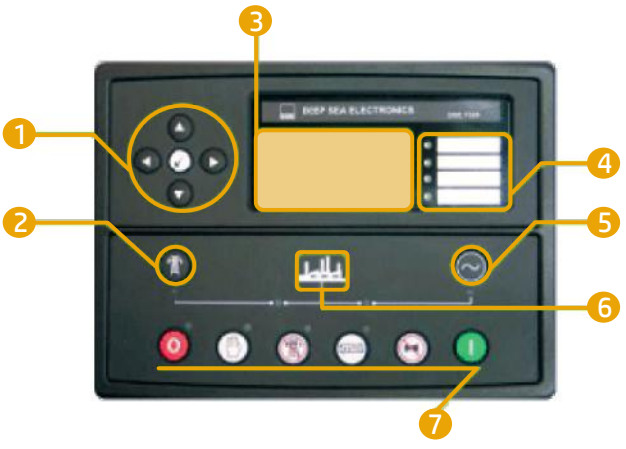


INTRODUCTION

Sound-attenuated and weather protective enclosures for generating sets from UPower, meet event the sound requirements and provide optimum protection from inclement weather and development by our specialist acoustic engineers. Our modular designed sound insulated canopies provide ease of access for servicing and general maintenance and interchangeable components permitting on-site repair. Enclosures are designed to optimize genset cooling performance, providing you with confidence that genset ratings and ambient capability

Control Panel

Control Module	Control Module Model	Communication Ports
DSE	7320	Modbus



1. Menu navigation buttons
2. Close mains button
3. Main Status and instrumentation display
4. Alarm LED's
5. Close generator button
6. Status LED's
7. Operation selecting buttons

Devices

DSE, model 7320 Auto Mains Failure control module Static battery charger Emergency stop push button and fuses for control circuits

Construction and Finish

Comonents installed in sheet steel enclosure.
Phosphate chemical, pre-coating of steel provides corrosion resistant surface
Polyester composite powder topcoat forms high gloss and extremely durable finish
Lockable hinged panel door provides for easy component access

Installation

Control panel is mounted generating set baseframe on robust steel stand or power module. Located at side of generating set with properly panel visibility

Generating Set Control Unit

» The DSE 7320 conrol module is a standard addition to our generator sets from 220 kVA upwards and it has been designed to start and stop diesel andgas generating sets that include electronic and non electronic engines

» The DSE 7320 includes the additional capability of being able to monitor a mains (utility) supply and is therefore suitable for controlling a standby generating set in conjunction with an automatic transfer switch

» The DSE 7320 also indicates operational status and fault conditions, automatically shutting down the generating set and indicating faults by means of its LCD display on the front panel

Standard Specifications

Microprocessor controlled
- 132 x 64 pixel LCD display makes information easy to read
- Front panel programming and also via PC software
- Soft touch membrane keypad and five key menu navigation
- Remote communications via RS232, RS485 and ethernet and SMS messaging
- Event logging (50) showing date and time
- Multiple date and time engine exercise mode and maintenance scheduler
- Engine block heater control.
- Controls; stop, manuel, auto, test, start, mute lamb test/transfer to generator, transfer to mains, menu navigation

Instruments

ENGINE
Engine speed
Oil pressure
Coolant temperature
Run time Battery volts
Engine maintenance due

GENERATOR
Voltage (L-L, L-N)
Current (L1-L2-L3)
Frequency
Earth current
kW
Pf
kVAr
kWh, kVAh, kVArh
Phase sequence

ELECTRICAL TRIP
Earth fault
kW over load
Generator over current
Negative phase sequence

WARNING
Charge failure
Battery under voltage
Fail to stop
Low fuel level (opt.)
kW over load
Negative phase sequence
Loss of speed signal

PRE-ALARMS
Low oil pressure
High engine temperature
Low engine temperature
Over /Under speed
Under/over generator frequency
Under/over generator voltage
ECU warning

MAINS
Voltage (L-L, L-N)
Frequency

SHUT DOWNS
Fail to start
Emergency stop
Low oil pressure
High engine temperature
Low coolant level
Over /Under speed
Under/over generator frequency
Under/over generator voltage
Oil pressure sensor open
Phase rotation

Options

High oil temperature shut down
Low fuel level shut down
Low fuel level alarm
High fuel level alarm

Expansion Modules

Editional LED module (2548)
Expension relay module (2157)
Expansion input module (2130)

Standarts

Elecrical Safety / EMC compatibility
-BS EN 60950 Electrical business equipment.
-BS EN 61000-6-2 EMC immunity standard.
-BS EN 61000-6-4 EMC emission standard

Static Battery Charger

Battery charger is manufactured with switching-mode and SMD technology and it has high efficincy
Battery charger models' output V-I characteristic is very close to square
2405 has fully output shot circuit protection and ıt can be used as a current source
2405 charger has high efficiency, long life, low failure rate, light weight and low heat radiated in accordance with linear alternatives
The charger is fitted with a protection diode across the output
Charge fail output is available
Connect charge fail relay coil between positive output and CF output
Input: 196-264V
Output: 27,6V 5A or 13,8V 5A

Standard Specifications

- Water cooled, Diesel engine
- Radiator with mechanical fan
- Protective grille for rotating and hot parts
- Electric starter and charge alternator
- Starting battery (with lead acid) including rack and cables
- Engine coolant heater
- Base frame design incorporates an integral fuel tank and anti-vibration isolators
- Flexible fuel connection hoses
- Single bearing, class H alternator
- Industrial exhaust silencer and steel bellows supplied separately(for open sets)
- Static battery charger
- Manual for application and installation

Optional Equipments

ENGINE

Fuel-Water Seperator Filter
Low water level alarm
Oil heater

ALTERNATOR

Anti-Condensation Heater
Over sized alternator
Single Phase (4 lead)
Main line circuit breaker

CONTROL SYSTEM

Remote annunciator panel
Earth fault, single set
Charge Ammeter

TRANSFER SWITCH

Three or four pole contactor
Three or four pole motor operated circuit breaker

OTHER ACCESSORIES

Main Fuel Tank
Automatic or manual fuel filling system
Manual oil drain pump
Low and high fuel level alarm
Residential silencer
Enclosure: weater protective or sound attenuated
Duct adapter (on radiator)
Inlet and outlet motorised louvers
Inlet and outlet acoustic baffles
Trailer
Tool kit for maintenance
1500/3000 hours maintenance kit
Double wall chassis
Supplied with oil and coolant - 30 °C

CERTIFICATES

CE TSE SZUTEST NOTIFIED BODY 2195