

# We bring Power to your Life

**UJD132**  
U Power Generation System



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## 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	105,60	132	96.0	120	190.53

**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 period of operation, in accordance with ISO 3046.

## General Characteristics

Model Name	UJD 132
Frequency (Hz)	50
Fuel Type	Diesel
Engine Made and Model	John Deere 6068 TF 220
Alternator Made and Model	ECP 34-1L / 4 A
Control Panel Model	6020
Canopy	UP 50

## Engine Specifications

Engine	John Deere
Engine Model	6068 TF 220
Number of Cylinder (L)	6 cylinders - in line
Bore (mm.)	106
Stroke (mm.)	127
Displacement (lt.)	6.8
Aspiration	Turbo Charged
Compression Ratio	17.0:1
RPM (d/dk)	1500

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Oil Capacity (Total With Filter) (lt)	17
Standby Power	121/162
Prime Power	109/146
Block Heater QTY	1
Block Heater Power (Watt)	1500
Fuel Type	Diesel
Injection Type and System	Direct
Type of Fuel Pump	Stanadyne DB4 Rotary Type
Governor System	Mechanic
Operating Voltage (Vdc)	12 Vdc
Battery and Capacity (Qty/Ah)	1x85
Charge Alternator (A)	-
Cooling Method	Water Cooled
Cooling Fan Air Flow (m <sup>3</sup> /min)	-
Coolant Capacity (engine only / with radiator) (lt)	11.3/35
Air Filter	Dry Type
Fuel Cons. Prime With %100 Load (lt/hr)	25.3
Fuel Cons. Prime With %75 Load (lt/hr)	19
Fuel Cons. Prime With %50 Load (lt/hr)	12.9

### Alternator Characteristics

Manufacturer	Mecc Alte
Alternator Brand and Model	ECP 34-1L / 4 A
Frequency (Hz)	50
Power (kVA)	135
Voltage (V)	400
Phase	3
A.V.R.	DSR
Voltage Regulation	(+/-)1%
Insulation System	H
Protection	IP21
Rated Power Factor	0.8
Weight Wound Rotor (Kg)	101.3
Cooling Air (m <sup>3</sup> /min)	19.3

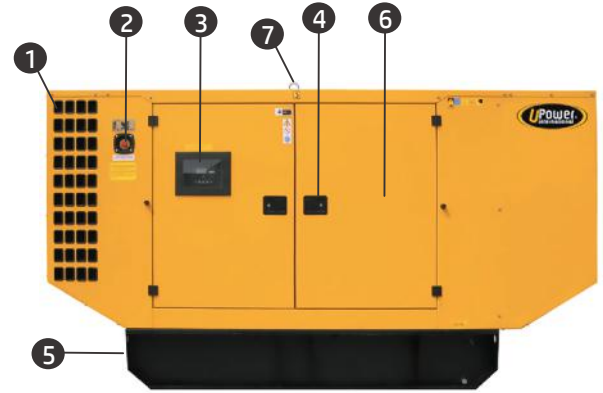
### Open Gen.Set Dimensions (mm)

Length	2300
Width	1150
Height	1520
Dry Weight (kg)	1440
Tank Capacity (lt)	240

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Lenght (mm) 3400 | Width (mm) 1220 | Height (mm) 1940 | Dry. Weight (kg) 1860 | Tank Capacit (lt) 240

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. Lifting Points



## 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 DSE | Control Module Model 6020 | Communication Ports Modbus



1. Main status display
2. Display scroll button
3. Page(information) button
4. Common alarm indicator
5. Status LED's
6. Operation selecting buttons

## Devices

- DSE, model 6020 Auto Mains Failure control module
- Battery charger input 198-264 volt, output 27,6 V 5 A (24 V) or 13,8 Volt 5A (12V)
- Emergency stop push button and fuses for control circuits

## Construction and Finish

Components 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 and hinged panel door provides easy access to components.

## 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 6020 is a standard control module for our generator sets up to 200kVA and it has been designed to start and stop diesel and gas generator sets
- » The DSE 6020 module has been designed to monitor generator frequency, volt, current, engine oil pressure, coolant temperature running hours and battery volts. Module monitors the mains supply and switch over to the generator when the mains power fails
- » The DSE 6020 also indicates operational status and fault conditions, Automatically shutting down the Gen. Set and giving true first up fault condition of Gen. Set failure. The LCD display indicates the fault

## Standard Specifications

- Microprocessor controlled
- LCD display makes information easy to read
- 4-line, 64 x 132 pixel display
- Automatically transfers between mains (utility) and generator power
- Manual programming on front panel
- User-friendly set-up and button layout
- Remote start
- Event logging (5) showing date and time
- Controls: Stop/Reset, Manual, Auto, Test, Start, buttons. An additional push button next to the LCD display is used to scroll through the modules' metering displays

## ENGINE

Engine speed  
Oil pressure  
Coolant temperature  
Run time  
Battery volts  
Configurable timing

### ELECTRICAL TRIP

Generator over current

### WARNING

Charge failure  
Battery Low/High voltage  
Fail to stop  
Low /High generator voltage  
Under/over generator frequency  
Over /Under speed  
Low oil pressure  
High coolant temperature

### MAINS

Voltage (L-L, L-N)  
Frequency  
Mains ready  
Mains enabled  
Gen. Set ready  
Gen. Set enabled

### SHUT DOWNS

Fail to start  
Emergency stop  
Low oil pressure  
High coolant temperature  
Over /Under speed  
Under/over generator frequency  
Under/over generator voltage  
Oil pressure sensor open  
Coolant temperature sensor open

## Instruments

## GENERATOR

Voltage (L-L, L-N)  
Current (L1-L2-L3)  
Frequency

## Options

- Flexible sensor can be controlled with temperature, pressure, percentage (warning/shutdown/electrical trip)
- Local setting parameters and monitoring from PC to control module with USB connection (max 6 mt)

## Standarts

- Electrical 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 efficiency

Battery charger models' output V-I characteristic is very close to square and output is 5 amper, 13,8 V for 12 volt and 27,6 V for 24 V . Input 198 - 264 volt AC

Proline 2405 has fully output shot circuit protection and it can be used as a current source

Proline 1205/2405 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

Connect charge fail relay coil between positive output and CF output

They are equipped with RFI filter to reduce electrical noise radiated from the device

Galvanically isolated input and output typically 4kV for high reliability

## 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

- Electronic governor control
- Fuel-Water Separator Filter
- Low water level alarm
- Oil heater

### ALTERNATOR

- Anti-Condensation Heater
- Over sized alternator
- 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
- Battery isolating switch

## CERTIFICATES



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