UPCU 450

UPOWER

General Performance Data

Engine	Brand	Cummins
	Model	QSG12G2

Control module		Deep Sea 6020
Starting voltage	V	24
Frequency	Hz	50
Number of phases		3

		Prime	Standby
Power kVA		410	450
Power kW		328	380
Rated speed	r.p.m	1500	
Standard voltage	V	400	230
Available voltages	V	380/220	415/240
Power factor	Cos Phi	0.8	

Open

Dimension

Length (L)	mm	3050
Height (H)	mm	2240
Width (W)	mm	1151
Weight	Kg	2650
Fuel Tank	L	700

Silent

Dimension

Length (L)	mm	4365
Height (H)	mm	2260
Width (W)	mm	1450
Weight	Kg	3818
Fuel Tank	L	660

Fuel Consumption

Rated Output	g/KW.h	L/h
100% Standby	0000	92.0
100% Prime	0000	82.0
75% Prime	0000	60.0
50% Prime	0000	41.0
25% Prime	0000	0000

Standards Followed

ISO9001	ISO14001
ISO8528	ISO12100
ISO13849	EN12601
GB12786	GB/T2820
IEC60034	IEC60204
CE	RETIE

Generador Standard

UPOWER

General Engine Data

Engine brand		Cummins
Engine ref.		QSG12G2
Engine type		4-stroke diesel
Governor type		ECU
Injection		Direct
Aspiration		Turbocharged and charge Air Cooled
Number of cylinders and arrangement		6- L
Bore and stroke	mm	132 X 144

Displacement	L	11.8
Cooling system		Water - cooled
Lube oil consumption with full load		0.5%-1% of fuel consumption
Compression ratio		17.0: 1
Engine oil capacity	L	34.1
Total coolant capacity	L	74.1
Air filter	Type	Dry

		Optionals
Diesel engine	Dry air filter	Water jacked heater
4-stroke cycle	Radiator with pusher fan	Radiator water level sensor
Water-cooled	Electronic governor	Oil heater
12V electrical system	Hot parts protection	Heavy duty air filter
Water separator filter	Moving parts protection	

Alternator Specifications

Number of phase	3
Power factor	0.8
Poles	4
Winding Connections (standard)	Star-serie
Insulation	H class
Enclosure (according IEC-34-5)	IP23

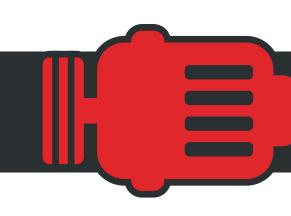|	
Excitation system	Self-excited, brushless
Voltage regulator	CumminsAVR (Electronic)
No. of bearings	Single bearing
Coupling system	Flexible disc
Coating type	Standard (Vacuum impregnation)

	Optionals
Self-excited and self-regulated	Alternator pre-heater
IP23 protection	Winding temp. measuring instrument
H class insulation	PMG / AREP / MAUX

Generador Standard

UPOWER

Application Data

Fuel system		Open	Silent
Fuel oil specifications		Diesel	
Standard fuel tank capacity	L	700	660

Exhaust system		
Maximum exhaust temperature	°C	507
Exhaust gas flow	L/s	909
Maximum allowed back pressure	kPa	10.2

Air system		
Intake air flow	L/s	378
Cooling air flow	m³/s	TBD

Starting system		
Starting power	kW	7.5
Recommended battery	Ah	120
Number of batteries		2
Auxiliary voltage	Vdc	24

Genset version

- Steel chasis
- Emergency stop button
- Anti-vibration shock absorbers
- Chassis with integrated fuel tank
- Fuel level gauge
- High mechanical strength
- Epoxy polyester powder coating
- Fuel tank drain plug
- Steel residential silencer - 20dbA attenuation
- Battery charger

Optionals

- Trailer type

Water-cooled   Three phase   50 Hz   Diesel   Stackable canopy

Power definition

Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO 8528-1.

The standby power rating is applicable for supplying emergency power in variable load applications in accordance with ISO 8528-1. Overload is not allowed.

Standard reference conditions

Ambient conditions of reference according to ISO 8528-1:2018 normative: 1000 mbar, 25ºC, 30% relative humidity.

Weights and dimensions based on standard products. Illustrations may include optional equipment. Technical data described in this catalogue correspond to the available information at the moment of printing.

Generador Standard

UPOWER

UPCU 450 | Industrial Range
Powered by Cummins

Features of the control panel	Basic Model (Standard)	Advanced Model (Optional)
Voltage between phases	o	o
Voltage between neutral and phase	o	o
Current intensities	o	o
Frequency	o	o
Apparent power (kVA)	o	o
Active power (kW)	o	o
Reactive power (kVAr)	o	o
Power factor	o	o
Voltage between phases	o	o
Emergency stop	o	o
Binary inputs	6/6	7/7
Analog inputs	3	3
2x10A Current outputs	o	-
I/O Configuration	o/o	o/o
D+ Function	o	o
Speed sensor	o	o
Amf/Mrs	o/o	o/o
GCB/MCB	o/o	o/o
3ph voltage measurement Gen./Mains	o/o	o/o
3ph current measurement	o	o
kW / kWh / kVA	o	o
Engine reading	o	o
Engine protection	o	o
Alternator protection	o	o
Earth current protection	-	*
History file	150	350
RTC/Battery	o/-	o/o
PLC	-	-
4G	*	-
Airgate	-	*
ECU CAN	o	o
MODBUS	*	*
MODBUS IP	*	*
SNMP	-	*
SNMP TRAPS	-	-
RS232	*	*
RS485	*	*
GSM/GPRS modem	*	*
Remote screen	*	*
Software for PC	*	*

Standard: **o**   Optional: **x**   Not Available: **-**

Generador Standard