UPCU 650

Industrial Range
Powered by Cummins

General Performance Data

Engine	Brand	Cummins
	Model	KTA19G8

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

		Prime	Standby
Power kVA		600	650
Power kW		480	520
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
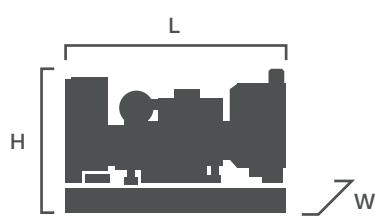
Dimension		
Length (L)	mm	3310
Height (H)	mm	2231
Width (W)	mm	1375
Weight	Kg	3860
Fuel Tank	L	1000

Silent

Dimension		
Length (L)	mm	4912
Height (H)	mm	2465
Width (W)	mm	1650
Weight	Kg	5520
Fuel Tank	L	930

Fuel Consumption

Rated Output	g/KW.h	L/h
100% Standby	0000	144
100% Prime	0000	TBD
75% Prime	0000	TBD
50% Prime	0000	TBD
25% Prime	0000	0000

Standards Followed

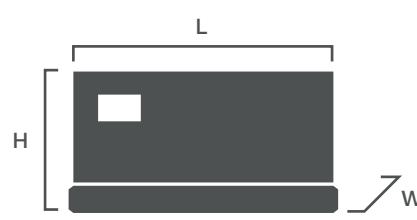|	
ISO9001	ISO14001
ISO8528	ISO12100
ISO13849	EN12601
GB12786	GB/T2820
IEC60034	IEC60204
CE	RETIE

Generador Standard

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General Engine Data

Engine brand	Cummins		
Engine ref.	KTA19G8		
Engine type	4-stroke diesel		
Governor type	Electronic		
Injection	Direct		
Aspiration	Turbocharged and Aftercooled		
Number of cylinders and arrangement	6- L		
Bore and stroke	mm	159 X 159	

Displacement	L	18.9	
Cooling system		Water - cooled	
Lube oil consumption with full load		0.5%-1% of fuel consumption	
Compression ratio		13.9 1	
Engine oil capacity	L	50	
Total coolant capacity	L	30+	
Air filter	Type	Dry	

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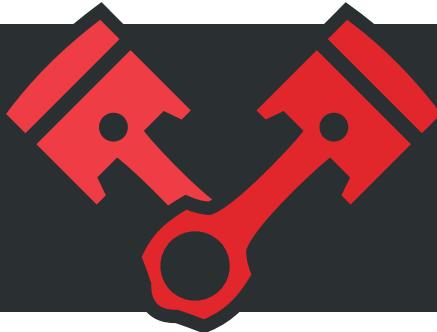
Alternator Specifications

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
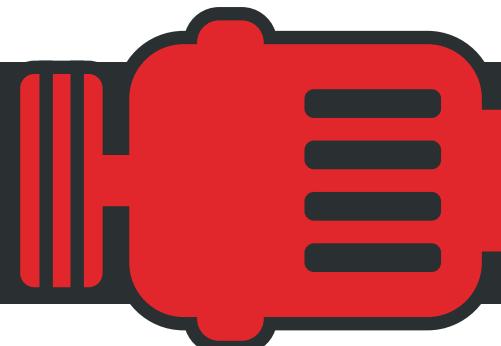
Generador Standard

Application Data

Fuel system		Open	Silent
Fuel oil specifications		Diesel	
Standard fuel tank capacity	L	1000	930

Exhaust system		
Maximum exhaust temperature	ºC	571
Exhaust gas flow	L/s	1975
Maximum allowed back pressure	kPa	10

Air system		
Intake air flow	L/s	772
Cooling air flow	m³/s	TBD

Starting system		
Starting power	kW	8.5
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

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