

## General Performance Data

Engine	Brand	Cummins
	Model	VTA28G5
Control module	Deep Sea 6020	
Starting voltage	V	24
Frequency	Hz	50
Number of phases	3	

	Prime	Standby
Power kVA	636	700
Power kW	509	560
Rated speed	r.p.m	1500
Standard voltage	V	400 230
Available voltages	V	380/220 415/240
Power factor	Cos Phi	0.8

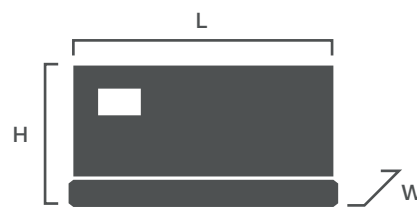
## Open



### Dimension

Length (L)	mm	3775
Height (H)	mm	2383
Width (W)	mm	1494
Weight	Kg	5674
Fuel Tank	L	600

## Silent



### Dimension

Length (L)	mm	5812
Height (H)	mm	2520
Width (W)	mm	2090
Weight	Kg	9780
Fuel Tank	L	1000

## Fuel Consumption

Rated Output	g/KW.h	L/h
100% Standby	0000	154
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

## General Engine Data

Engine brand	Cummins
Engine ref.	VTA28G5
Engine type	4-stroke diesel
Governor type	Electronic
Injection	Direct
Aspiration	Turbocharged and Aftercooled
Number of cylinders and arrangement	12-V
Bore and stroke	mm 140 X 152

Displacement	L	28
Cooling system	Water - cooled	
Lube oil consumption with full load	0.5%-1% of fuel consumption	
Compression ratio	13:1:1	
Engine oil capacity	L	83
Total coolant capacity	L	163
Air filter	Type	Dry

Diesel engine	Dry air filter
4-stroke cycle	Radiator with pusher fan
Water-cooled	Electronic governor
12V electrical system	Hot parts protection
Water separator filter	Moving parts protection

### Optionals

Water jacked heater
Radiator water level sensor
Oil heater
Heavy duty air filter



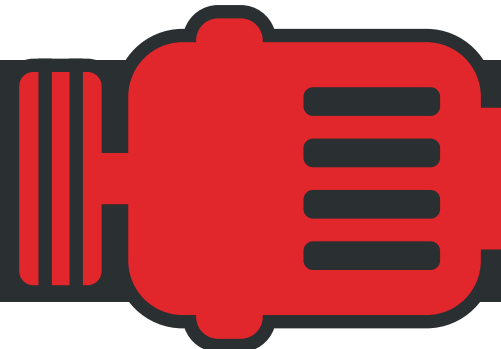
## Alternator Specifications

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



## Application Data

### Fuel system

	Open	Silent
Fuel oil specifications	Diesel	
Standard fuel tank capacity	L 600	1000

### Air system

Intake air flow	L/s	878
Cooling air flow	m <sup>3</sup> /s	TBD

### Exhaust system

Maximum exhaust temperature	°C	507
Exhaust gas flow	L/s	2048
Maximum allowed back pressure	kPa	10

### Starting system

Starting power	kW	9
Recommended battery	Ah	120
Number of batteries		2
Auxiliary voltage	Vdc	24

## Genset version

Steel chasis	High mechanical strength
Emergency stop button	Epoxy polyester powder coating
Anti-vibration shock absorbers	Fuel tank drain plug
Chassis with integrated fuel tank	Steel residential silencer - 20dbA attenuation
Fuel level gauge	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, 25°C, 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.

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: -