



SERVICE		PRP	ESP
POWER	kVA	500	542
POWER	kW	400	433
RATED SPEED	r.p.m.	1.500	
STANDARD VOLTAGE	V	400/230	
AVAILABLE VOLTAGES	V	230/132 · 230 V (t)	
RATED AT POWER FACTOR	Cos Phi	0,8	



INDUSTRIAL RANGE

- 2006/42/CE Machinery safety.
- 2014/30/UE Electromagnetic compatibility.
- 2014/35/UE electrical equipment designed for use within certain voltage limits
- 2000/14/EC Sound Power level. Noise emissions outdoor equipment. (amended by 2005/88/EC)
- EN 12100, EN 13857, EN 60204

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

Prime Power (PRP):

According to ISO 8528-1:2018, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24 h of operation shall not exceed 70 % of the PRP.

Emergency Standby Power (ESP):

According to ISO 8528-1:2018, Emergency standby power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP

Continuous Power (COP): According to Standard ISO 8528-1:2018, this is the maximum power available for continuous loads for unlimited running hours a year between the maintenance times recommended by the manufacturer under the environmental conditions established by the same.

G2 class load acceptance in accordance with ISO 8528-5:2013



STANDARD SOUNDPROOFING



G1



WATER-COOLED



THREE PHASE



50 HZ



NON COMPLYING 97/68/EC



DIESEL

Technical data described in this catalogue correspond to the available information at the moment of printing.

The illustrations and images are indicative and may not coincide in their entirety with the product.

Industrial design under patent.



Engine Specifications | 1.500 r.p.m.

Rated Output (PRP)	kW	425
Rated Output (ESP)	kW	459
Manufacturer	FPT_IVECO	
Model	CR13TE7W	
Engine Type	4-stroke diesel	
Injection Type	Direct, common rail	
Aspiration Type	Turbocharged and after-cooled	
Number of cylinders and arrangement	6-L	
Bore and Stroke	mm	135 x 150
Displacement	L	12,88
Cooling System	Liquid (water + 50% glycol)	
Lube Oil Specifications	ACEA E3 - E5	
Compression Ratio	16,5:1	

Fuel Consumption ESP	l/h	112,6
Fuel Consumption 100% PRP	l/h	100,6
Fuel Consumption 80 % PRP	l/h	80,2
Fuel Consumption 50 % PRP	l/h	51,5
Lube oil consumption with full load	0,5 % of fuel consumption	
Total oil capacity including tubes, filters	L	32
Total coolant capacity	L	38,1
Heat dissipated by coolant	kW	199,5
Governor	Type	Electrical
Air Filter	Type	Dry
Inner diameter exhaust pipe	mm	108



- Diesel engine
- 4-stroke cycle
- Water-cooled
- 24V electrical system
- Water separator filter (no visible level)
- Dry air filter
- Radiator with pusher fan
- HTW sender
- LOP sender
- Radiator water level sensor
- Electronic governor
- Hot parts protection
- Moving parts protection



Generator Specifications | Stamford / Leroy Somer

Manufacturer	Stamford / Leroy Somer	
Model	HCI544C / TAL 047C	
Poles	No.	4
Connection type (standard)	Star - Parallel	
Mounting type	S-1 14"	
Insulation	Class	H class

Enclosure (according IEC-34-5)	IP23
Exciter system	Self-excited, brushless
Voltage regulator	A.V.R. (Electronic)
Bracket type	Single bearing
Coupling system	Flexible disc
Coating type	Standard (Vacuum impregnation)



- Self-excited and self-regulated
- 4 poles
- AVR governor
- IP23 protection
- H class insulation
- Single drive-shaft
- Flexible disc coupling

WEIGHT AND DIMENSIONS

		Standard Version	High Capacity version
Length (L)	mm	4.100	4.100
Height (H)	mm	2.200	2.600
Width (W)	mm	1.600	1.600
Maximum shipping volume	m ³	14,43	17,06
Weight with liquids in radiator and sump	Kg	4707	5342
Fuel tank capacity	L	597	1660
Autonomy	Hours	7	21
Sound pressure level	dB(A)@7m	80 ± 2,4	80 ± 2,4
		Steel tank	Steel tank

APPLICATION DATA

EXHAUST SYSTEM

Maximum exhaust temperature	°C	520
Maximum allowed back pressure	mbar	50
Exhaust Flange Size (external diameter)	mm	140
Heat dissipated by exhaust pipe	KCal/Kwh	581

NECESSARY AMOUNT OF AIR

Intake air flow	m ³ /h	1576
Cooling Air Flow	m ³ /s	10,9
Alternator fan air flow	m ³ /s	0,9

STARTING SYSTEM

Starting power	kW	7,8
Starting power	CV	10,61
Recommended battery	Ah	180 x 2
Auxiliary Voltage	Vdc	24

FUEL SYSTEM

Fuel Oil Specifications		Diesel
Fuel Tank	L	597
Other fuel tank capacities	L	1.660



Soundproofed version

- Steel chassis
- Anti-vibration shock absorbers
- Fuel tank
- Fuel level gauge
- External emergency stop switch
- Bodywork made from high quality steel plate
- High mechanical strength
- Low noise emissions level
- Soundproofing provided by high-density volcanic rock wool
- Epoxy polyester powder coating
- Full access for maintenance (water, oil and filters, no need to remove the canopy)
- Reinforced lifting hooks for crane hoisting
- Watertight chassis (acts as a double barrier against liquid retention)
- Fuel tank drain plug
- Chassis drain plug
- Chassis ready for future mobile kit installation
- Steel residential silencer -35db(A) attenuation.
- Oil sump extraction kit
- Versatility to assemble a high capacity chassis with a metallic fuel tank
- IP Protection according to ISO 8528-13:2016
- 3 way valve for external fuel supply (available in 1/2" and 3/8" fittings) (Optional).
- Fuel transfer pump (Optional).