



SERVICE		PRP	ESP
POWER	kVA	45	50
POWER	kW	36	40
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 8528-5:2018



OPEN SKID



K3



WATER-COOLED



THREE PHASE



50 HZ



STAGE 2



DIESEL

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.

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	36
Rated Output (ESP)	kW	41,4
Compression Ratio		17,5 : 1
Model		N45 AM1A
Engine Type		4-stroke diesel
Injection Type		Direct
Aspiration Type		Turbocharged
Number of cylinders and arrangement		4-L
Bore and Stroke	mm	104 x 132
Displacement	L	4,5
Cooling System		Coolant
Lube Oil Specifications		SAE 3 class 10W30 / API grade CD,CF

Fuel Consumption ESP	l/h	12,58
Fuel Consumption 100% PRP	l/h	11,3
Fuel Consumption 80 % PRP	l/h	9,2
Fuel Consumption 50 % PRP	l/h	6,4
Lube oil consumption with full load	%fuel	□ 0,1
Total oil capacity	L	8,5
Total coolant capacity	L	10
Governor	Type	Mechanical
Air Filter	Type	Dry
Inner diameter exhaust pipe	mm	45

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



Generator Specifications | Stamford / Leroy Somer

Manufacturer	Stamford / Leroy Somer	
Model	UCI224D / TAL042F	
Poles	No.	4
Connection type (standard)	Star-series	
Mounting type	S-3 11*1/2	
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)

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- Self-excited and self-regulated
 - IP23 protection
 - H class insulation

WEIGHT AND DIMENSIONS

		Standard Version
Length (L)	mm	1.850
Height (H)	mm	1.500
Width (W)	mm	780
Maximum shipping volume	m ³	2,16
Weight with liquids in radiator and sump	Kg	626
Fuel tank capacity	L	120
Autonomy	Hours	17



APPLICATION DATA

EXHAUST SYSTEM

Maximum exhaust temperature	°C	480
Exhaust Gas Flow	m ³ /min	10,45
Maximum allowed back pressure	mm H ₂ O	1000

NECESSARY AMOUNT OF AIR

Intake air flow	m ³ /h	194,16
Cooling Air Flow	m ³ /s	0,979
Alternator fan air flow	m ³ /s	0,176

STARTING SYSTEM

Starting power	kW	2,3
Starting power	CV	3,13
Recommended battery	Ah	92
Auxiliary Voltage	Vdc	12

FUEL SYSTEM

Fuel Oil Specifications	Diesel	
Fuel Tank	L	120



Open set version

- Steel chassis
- Emergency stop button
- Anti-vibration shock absorbers
- Chassis with integrated fuel tank
- Fuel level gauge
- Fuel tank drain plug
- Steel industrial silencer -15db(A) attenuation
- Fuel transfer pump (Opcional).
- Steel residential silencer -35db(A) attenuation. (Opcional).