

ZKG ALZAWRAA-KUNZ GENSETS TABLE

Genset Model	Generator Capacity				Engine Type Perkins 1500 rpm UK	Alternator Type Stamford UK
	Standby Power		Prime Power			
	KVA	KW	KVA	KW		
ZKG14PN	14	11.2	13	10.4	403D-15G	BCI164C
ZKG22PN	22	17.6	20	16	404D-22G	BCI184E
ZKG33PN	33	26.4	30	24	1103A-33G	BCI184G
ZKG50PN	50	40	45	36	1103A-33TAG1	UCI224D
ZKG72PN	72	57.6	65	52	1104A-44TG1	UCI224F
ZKG110PN	110	88	100	80	1104C-44TAG2	UCI274C
ZKG165PN	165	132	150	120	1006TAG2	UCI274F
ZKG200PN	200	160	180	144	1106C-E66TAG4	UCI274G
ZKG250PN	250	200	225	180	1306C-E87TAG4	UCDI274J
ZKG275PN	275	220	250	200	1306C-E87TAG6	UCDI274K
ZKG330PN	330	264	300	240	2206A-E13TAG2	HCI444D
ZKG400PN	400	320	350	280	2206A-E13TAG2	HCI444E
ZKG450PN	450	360	400	320	2206A- E13TAG3	HCI444F
ZKG500PN	500	400	450	360	2506A-E15TAG1	HCI544C
ZKG550PN	550	440	500	400	2506A-E15TAG2	HCI544D
ZKG660PN	660	528	600	480	2806A-E18TAG1A	HCI544F
ZKG700PN	700	560	650	520	2806A- E18TAG2	HCI544F
ZKG825PN	825	660	750	600	4006-23TAG2A	HCI634G
ZKG900PN	900	720	800	640	4006-23TAG3A	HCI634H
ZKG1100PN	1100	880	1000	800	4008TAG2A	HCI634J
ZKG1385PN	1385	1108	1250	1000	4012-46TWG2A	PI734A
ZKG1500PN	1500	1200	1350	1080	4012-46TWG3A	PI734B
ZKG1650PN	1650	1320	1500	1200	4012-46TAG2A	PI734C

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Genset Model	Generator capacity				Engine Type Perkins 1500 RPM UK	Alternator Type Stamford UK
	Standby power		Prime Power			
	KVA	KW	KVA	KW		
ZKG1875PN	1875	1500	1710	1368	4012-46TAG3A	PI734E
ZKG2000PN	2000	1600	1850	1480	4016-TAG1A	PI734E
ZKG2250PN	2250	1800	2000	1600	4016TAG2A	PI734F
ZKG2500PN	2500	2000	2250	1800	4016-61TRG3	LV1804R
ZKLTG10PN	10	8	9	7.2	403D-11G	PI044E
ZKLTG14PN	14	11.2	13	10.4	403D-15G	BCI164C
ZKMG110PN	110	88	100	80	1104C-44TAG2	UCI274C
ZKMG275PN	275	220	250	200	1306C-E87TAG6	UCDI274K
ZKMG400PN	400	320	350	280	2206C-E13TAG2	HCI444E
ZKMG550PN	550	440	500	400	2506A-E15TAG2	HCI544D

The above ratings represent the engine performance capabilities to conditions specified in ISO 8528/1, ISO 3046/1:1986, and BS 5514/1.

Derating may be required for conditions outside these; Generator powers are typical and are based on typical alternator efficiencies and a power factor (cos Ø) of 0.8.

Definitions

KVA: kilovolt amp is a measure of electrical power produced by the gen-set.
Kw: kilowatt electrical is a measure of electrical power produced by a gen – set , $kWe = KVA \times 0.8$
Power Ratings: power rating are defined by ISO 8528-1, and are explained below :
Prime power:Power available at variable load with a load factor not exceeding 70% of the prime power rating. Overload of 10% is permitted for 1 hour in every 12 hours' operation.
Standby power (maximum):Standby Power: Power available in the event of a main power network failure up to a maximum of 500 hours per year of which up to 300 hours may be run continuously.No overload is permitted.

Abbreviations

Governor: maintains the desired running speed.
M: Mechanical governor , **E:**electronic governor
Injection :D:Direct injection ,**I:** Indirect injection
Aspiration: **N:**Natural , **T:**Turbocharged ,
TA: Turbocharged After Cooled ,
TWC:Turbocharged Water charge cooled
Number of cylinders: L: Vertical in Line , **V:** 60° Vee form
Fuel Specification: BS 2869: part 2 1998 Class A2 or ASTM D975 D2.
Lubricating oil : To API CH4/ACEA E4 E5
Cooling system: All engines are water cooled.
Direction of rotation: All are Anti-Clockwise, except 1006TG1A and 1006TG2A are Clockwise
Cycle: All engines are four stroke engines

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Standard Equipment

Control panel system	Alternator
<p>Al-Zawraa equips all its generators with a base frame-mounted control panel. They range from models offering basic manual control of single generators to panels with highly sophisticated functionality.</p> <p>Each control panel incorporates a Digital control module (Deep Sea) together with an integral stand and circuit breaker, ensuring dependable and user-friendly operation. They are specially designed to suit the requirements of particular generators.</p> <p>- Digital control panel: a wide range of control panel options that include: manual start, automatic start, remote start, automatic mains failure and manual/automatic synchronizing and load sharing. These are available to cover the complete power range. The appropriate digital control panel is chosen based on the required functions.</p>	<p>Conforms to main international standards and regulations, screen protected and drip-proof, self-regulating brushless alternator with fully interconnected damper windings. The insulation system is of class H. Three alternators can be installed to the engine, depending on power outputs. .</p> <p>Alternators installed are: Le Roy Somer, Stamford and Meccalte.</p> <p>Al-Zawraa company using with its Genset Stamford Alternators</p>

Fuel Tank

On all sets, the base frame design incorporates an integral fuel tank with a capacity of approximately 3 to 5 hours depending on the size of the engine.

The Tank is supplied complete with contents indicator, fuel fill cap with breathers, fuel feed and return lines to engine and drain plug.

Genset Model Definition

ZKG = Z=Al-ZawraaCompany, K= Kunz Company, G=Generator

ZKLTG = Z = Al-Zawraa Company, K = Kunz Company, L=Light, T=Tower, G = Generator

ZKMG = Z = Al-Zawraa Company, K = Kunz Company, M = Mobile, G = Generator