

ژنراتور : Stamford

موتور دیزل : Deutz

Standby		Prime		دیزل ژنراتور
KVA	KW	KVA	KW	
69	55	62.5	50	



موتور دیزل

Manufacturer	Deutz	تولید کننده
Type	WP4D66E200	تیپ
Number of cylinders	4	تعداد سیلندر ها
Cylinder arrangement	in-line	آرایش سیلندر ها
Cycle	4 stroke	چرخه
Aspiration	Turbocharged	سیستم تنفس
Bore × Stroke , mm	105X130	قطر سیلندر × کورس پیستون
Displacement , Liters	4.5	جا به جایی
Speed Governor	Mechanical	سرعت گاورنر
Cooling System	water-cooled	سیستم خنک کننده
Starter Motor	12 V	استارتر موتور

ژنراتور

Manufacturer	Stamford	تولید کننده
Type	UCI224E	تیپ
Exciter type	Brushless, Self-excited	نوع کانتر
Power factor	0.8	ضریب قدرت
Voltage Adjust range	$\geq 5\%$	محدوده تنظیم ولتاژ
Voltage Regulation NL-FL	$\leq \pm 1\%$	مقررات ولتاژ NL-FL
Speed, Rpm	1500	سرعت
Insulation class	H	کلاس عایق
Protection class	IP23	کلاس حفاظتی
Speed, Rpm	1500	سرعت
Excitation	Brushless	سیستم تمریک

Diesel Engine Data

Manufacturer:	DEUTZ
Model:	WP4D66E200
Max. Standby Power at Rated RPM:	60KW/82HP
Rated Speed:	1500 (r/min)
Cycle:	4 stroke
Cylinder Arrangement:	4 in line
Displacement:	4.16L
Bore and Stroke:	105*120 (mm)
Compression Ratio:	16.0:1
Governor Type:	Electronic
Start battery voltage:	24V DC

Air Intake System

Air Intake System:	Turbo
Max Intake Restriction:	5kpa
Burning Capacity:	3.25m ³ /min
Air Flow:	70m ³ /min

Exhaust System

Exhaust Gas Flow:	7.6 m ³ /min
Exhaust Temperature:	430℃
Max Back Pressure:	10kPa

Fuel System

Fuel System:	A model fuel pump
100%(Prime Power) Load:	208g/kwh

Oil System

Total Oil Capacity:	9.5L
Oil Consumption:	≤1.36g/kwh
Oil Pressure at Rated RPM:	0.30-0.50MPa

Cooling System

Cooling Way:	Water-cooled
Total Coolant Capacity:	17L
Thermostat:	95-105℃
Max Water Temperature:	104℃

Options

Engine

Heater 2KW & 4KW
Battery Charger 3.5A & 7A
Water Separator
Daily Fuel Tank
Fuel Level Sensor

Alternator

Anti Condensation Heater
Permanent Magnet Generator (PMG)
Drop CT (For Paralleling)

Control System

Remote Control Panel
Auto Transfer Switch (ATS)
Paralleling System

Others

Rainproof Type
Soundproof Type
Trailer Type

Open Type

Overall Size

2050(mm)*750(mm)*1650(mm)

Weight

900 (kg)

Soundproof Type

Overall Size

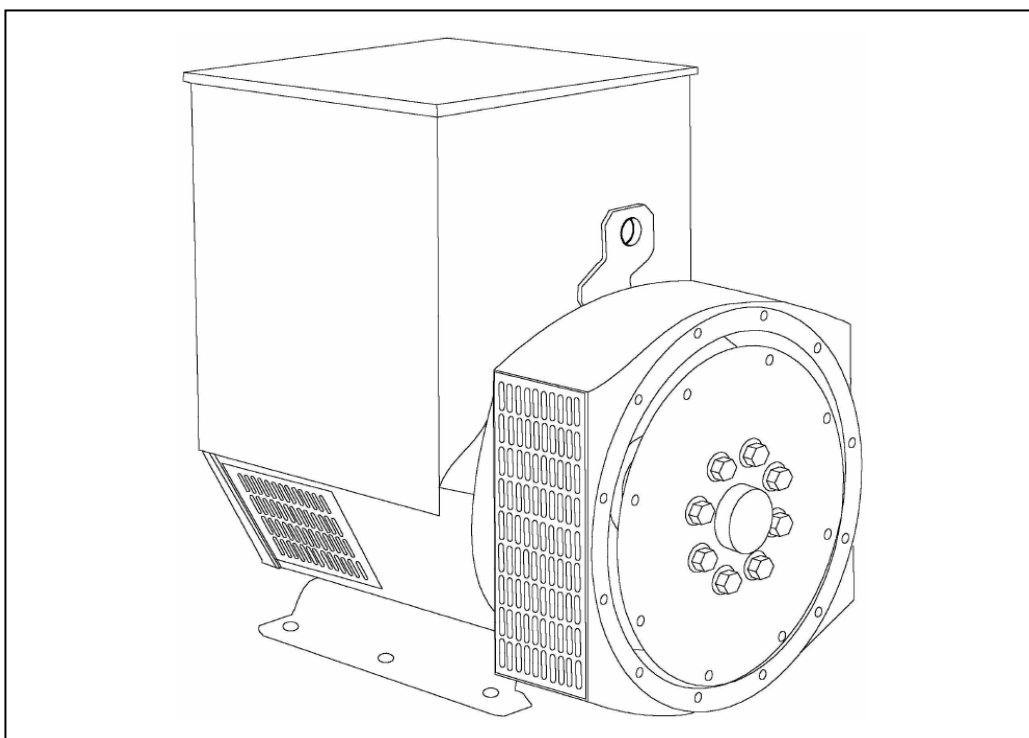
2500(mm)*1050(mm)*2050(mm)

Weight

1350(kg)

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UCI224E - Technical Data Sheet



STAMFORD®

CONTROL SYSTEM	SELF EXCITED		
A.V.R.	SX460	AS440	
VOLTAGE REGULATION	± 1.0 %	± 1.0 %	With 4% ENGINE GOVERNING
SUSTAINED SHORT CIRCUIT	SERIES 4 CONTROL DOES NOT SUSTAIN A SHORT CIRCUIT CURRENT		

INSULATION SYSTEM	CLASS H							
PROTECTION	IP23							
RATED POWER FACTOR	0.8							
STATOR WINDING	DOUBLE LAYER CONCENTRIC							
WINDING PITCH	TWO THIRDS							
WINDING LEADS	12							
STATOR WDG. RESISTANCE	0.101 Ohms PER PHASE AT 22°C SERIES STAR CONNECTED							
ROTOR WDG. RESISTANCE	0.69 Ohms at 22°C							
EXCITER STATOR RESISTANCE	20 Ohms at 22°C							
EXCITER ROTOR RESISTANCE	0.078 Ohms PER PHASE AT 22°C							
R.F.I. SUPPRESSION	BS EN 61000-6-2 & BS EN 61000-6-4,VDE 0875G, VDE 0875N. refer to factory for others							
WAVEFORM DISTORTION	NO LOAD < 1.5% NON-DISTORTING BALANCED LINEAR LOAD < 5.0%							
MAXIMUM OVERSPEED	2250 Rev/Min							
BEARING DRIVE END	BALL. 6312-2RS (ISO)							
BEARING NON-DRIVE END	BALL. 6309-2RS (ISO)							
	1 BEARING				2 BEARING			
WEIGHT COMP. GENERATOR	311 kg				330 kg			
WEIGHT WOUND STATOR	103 kg				103 kg			
WEIGHT WOUND ROTOR	95.89 kg				87.52 kg			
WR ² INERTIA	0.4999 kgm ²				0.4682 kgm ²			
SHIPPING WEIGHTS in a crate	334 kg				351 kg			
PACKING CRATE SIZE	105 x 57 x 96(cm)				105 x 57 x 96(cm)			
	50 Hz				60 Hz			
TELEPHONE INTERFERENCE	THF<2%				TIF<50			
COOLING AIR	0.216 m³/sec 458 cfm				0.281 m³/sec 595 cfm			
VOLTAGE SERIES STAR	380/220	400/231	415/240	440/254	416/240	440/254	460/266	480/277
VOLTAGE PARALLEL STAR	190/110	200/115	208/120	220/127	208/120	220/127	230/133	240/138
VOLTAGE SERIES DELTA	220/110	230/115	240/120	254/127	240/120	254/127	266/133	277/138
kVA BASE RATING FOR REACTANCE VALUES	60	60	60	58	67.5	70	72.5	75
Xd DIR. AXIS SYNCHRONOUS	2.48	2.24	2.08	1.79	3.00	2.78	2.64	2.50
X'd DIR. AXIS TRANSIENT	0.19	0.17	0.16	0.14	0.22	0.20	0.19	0.18
X''d DIR. AXIS SUBTRANSIENT	0.13	0.12	0.11	0.09	0.15	0.14	0.13	0.13
Xq QUAD. AXIS REACTANCE	1.13	1.02	0.95	0.82	1.38	1.28	1.21	1.15
X''q QUAD. AXIS SUBTRANSIENT	0.14	0.13	0.12	0.10	0.14	0.13	0.12	0.12
Xl LEAKAGE REACTANCE	0.08	0.08	0.07	0.06	0.09	0.08	0.08	0.08
X2 NEGATIVE SEQUENCE	0.13	0.12	0.11	0.09	0.14	0.13	0.12	0.12
X0 ZERO SEQUENCE	0.11	0.10	0.09	0.08	0.09	0.08	0.08	0.08
REACTANCES ARE SATURATED VALUES ARE PER UNIT AT RATING AND VOLTAGE INDICATED								
T'd TRANSIENT TIME CONST.	0.028 s							
T''d SUB-TRANSTIME CONST.	0.007 s							
T'do O.C. FIELD TIME CONST.	0.7 s							
Ta ARMATURE TIME CONST.	0.006 s							
SHORT CIRCUIT RATIO	1/Xd							

UCI224E

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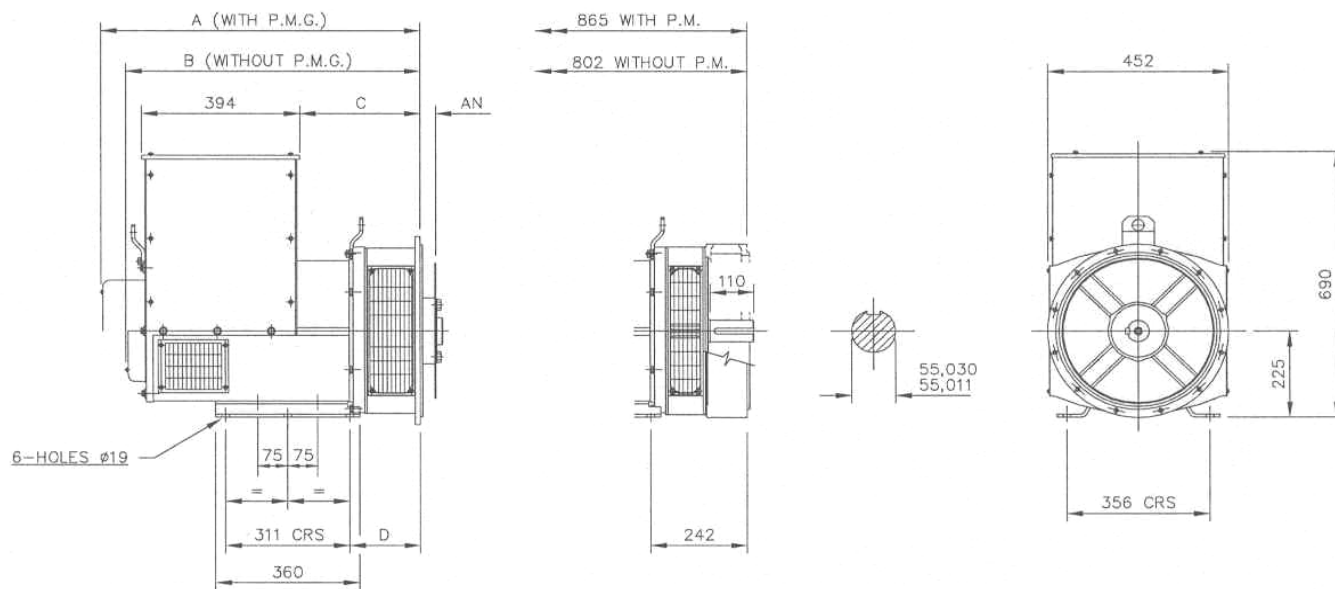
Winding 311 / 0.8 Power Factor

RATINGS

Class - Temp Rise		Cont. F - 105/40°C				Cont. H - 125/40°C				Standby - 150/40°C				Standby - 163/27°C			
50 Hz	Series Star (V)	380	400	415	440	380	400	415	440	380	400	415	440	380	400	415	440
	Parallel Star (V)	190	200	208	220	190	200	208	220	190	200	208	220	190	200	208	220
	Series Delta (V)	220	230	240	254	220	230	240	254	220	230	240	254	220	230	240	254
	kVA	53.0	53.0	53.0	40.3	60.0	60.0	60.0	45.0	61.0	61.0	61.0	45.8	63.0	63.0	63.0	47.3
	kW	42.4	42.4	42.4	32.2	48.0	48.0	48.0	36.0	48.8	48.8	48.8	36.6	50.4	50.4	50.4	37.8
	Efficiency (%)	88.9	89.3	89.5	89.9	88.3	88.8	89.1	89.5	88.2	88.7	89.0	89.5	88.0	88.5	88.8	89.4
	kW Input	47.7	47.5	47.4	46.3	54.4	54.1	53.9	51.8	55.3	55.0	54.8	52.7	57.3	56.9	56.8	54.6

60 Hz	Series Star (V)	416	440	460	480	416	440	460	480	416	440	460	480	416	440	460	480
	Parallel Star (V)	208	220	230	240	208	220	230	240	208	220	230	240	208	220	230	240
	Delta (V)	240	254	266	277	240	254	266	277	240	254	266	277	240	254	266	277
	kVA	62.5	65.0	65.0	68.0	67.5	70.0	72.5	75.0	70.0	73.8	73.8	78.8	72.5	75.0	75.0	80.0
	kW	50.0	52.0	52.0	54.4	54.0	56.0	58.0	60.0	56.0	59.0	59.0	63.0	58.0	60.0	60.0	64.0
	Efficiency (%)	89.2	89.5	89.9	90.0	88.8	89.2	89.4	89.6	88.6	88.9	89.3	89.4	88.4	88.8	89.3	89.3
	kW Input	56.1	58.1	57.8	60.4	60.8	62.8	64.9	67.0	63.2	66.4	66.1	70.5	65.6	67.6	67.2	71.7

DIMENSIONS



SINGLE BEARING MACHINES ONLY						
ADAPTOR	A	B	C	D	COUPLING DISCS	AN
SAE 1	814,3	751,3	314,3	191,3	SAE 8	61,90
SAE 2	800	737	300	177	SAE 10	53,98
SAE 3	800	737	300	177	SAE 11,5	39,68
SAE 4	800	737	300	177	SAE 14	25,40

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