

# RELIABLE ENERGY SOLUTIONS



## SHANGHAI QN KSS SERIES GENERATORS

### Technical Specifications

#### DIESEL ENGINE

**SHANGHAI** With 12V/24V volt starter and charging alternator  
Changeable air, fuel and oil filter  
Mechanical governor control  
With tropical radiators  
With flexible fuel hose  
With oil drain valve and extension hose  
Industrial type muffler and steel compensator  
Starter type batteries  
Engine jacket water heater  
1500 rpm engine speed

#### OPTIONAL EQUIPMENTS

Moulded case circuit breaker (for automatic models)  
Sound insulation cabinet  
Trailer mounted generator set  
Automatic fuel filling system  
Synchronization board  
3-pole / 4-pole power transfer board  
Fuel heater, oil heater  
External fuel tank and automatic fuel filling system  
Fuel / water separator filter  
Computer controlled remote monitoring and control panel

#### ALTERNATOR

IP 21-23 protection class  
H insulation class  
50 Hz frequency  
4-pole brushless synchronous type  
With automatic voltage regulator (AVR)  
400/230V AC output voltage

#### CABINET AND CHASSIS

Design suitable for easy lifting and carrying  
Cabin equipped with sound insulation  
Modular cabinet design  
Lockable cabinet covers  
Panel monitoring with transparent window  
Durable electrostatic powder coated  
With emergency stop button  
Fuel tank in integrated in chassis  
Robust and flexible anti-vibration wedges



## SHANGHAI QN KSS SERIES GENERATORS

MODEL		KSS 200	KSS 240	KSS 275	KSS 300
Stand By	kVA	200	240	275	300
	kW	160	192	220	240
Prime	kVA	180	216	248	270
	kW	144	173	198	216
Continuous Current	A	260	312	357	389
Engine		SHANGHAI	SHANGHAI	SHANGHAI	SHANGHAI
Engine Model		SC8H208	SC8H217	SC9H272	SC9H272
Number of Cylinder and Type		6 INLINE	6 INLINE	6 INLINE	6 INLINE
Injection and System Type		Direct	Direct	Direct	Direct
Electrical System (VCD)	V	24	24	24	24
Compression Ratio		18:01	18:01	18:01	18:01
Cylinder Volume	lt	8,27	8,27	8,27	8,82
Bore	mm	114	114	114	114
Stroke	mm	135	135	135	135
Aspiration		Turbocharger / Intercooler	Turbocharger / Intercooler	Turbocharger / Intercooler	Turbocharger / Intercooler
Speed	d/dk	1500	1500	1500	1500
Oil Capacity	lt	20	20	20	20
Fuel Type		Euro Diesel	Euro Diesel	Euro Diesel	Euro Diesel
Governor System		Elektronik	Elektronik	Elektronik	Elektronik
Cooling Method		Water Cooled	Water Cooled	Water Cooled	Water Cooled
Total Coolant Capacity		48	48	48	48
Continuous (Prime)	At Full Load	41	46	52	59
Power fuel consumption	%75 Load	31	35	39	46
	%50 Load	21	23	26	30
Alternator Model		KCS-274F	KCS-274H	KCS-274J	KCS-314B
Frequency	Hz	50	50	50	50
Power	kVA	225	253	275	325
Voltage	V	230 / 400	230 / 400	230 / 400	230 / 400
Phase		3	3	3	3
Automatic Voltage Regulator		AS440	AS440	AS440	AS440
Voltage Regulation		±1%	±1%	±1%	±1%
Insulation Class		H	H	H	H
Protection Class		IP 23	IP 23	IP 23	IP 23
Power Factor	cos φ	0.8	0.8	0.8	0.8
Weight with / without Cabinet	kg	2250 / 1970	2370 / 2090	2590 / 2310	2950 / 2385
Width with / without Cabinet	mm	1100 / 1100	1100 / 1100	1100 / 1100	1500 / 1500
Length with / without Cabinet	mm	3100 / 3100	3100 / 3100	3100 / 3100	3500 / 3500
Height with / without Cabinet	mm	1700 / 1550	1700 / 1550	1750 / 1600	1750 / 1600
Fuel Tank Capacity	lt	250	250	250	600

**Standby Power:** Using the generator under variable load as a backup to the mains energy as emergency power supply, no overloading.

**Prime Power:** Using it as a 24/24-hour continuous power supply under variable loads. 1/12 hour can be allowed to 10% overload.

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MODEL		KSS 360	KSS 385	KSS 440	KSS 500
Stand By	kVA	360	385	440	500
	kW	288	308	368	400
Prime	kVA	324	347	418	455
	kW	260	277	335	364
Continuous Current	A	734	500	644	656
Engine		SHANGHAI	SHANGHAI	SHANGHAI	SHANGHAI
Engine Model		SC13H340	SC13H380	SC13H435	SC13H516
Number of Cylinder and Type		6 INLINE	6 INLINE	6 INLINE	6 INLINE
Injection and System Type		Direct	Direct	Direct	Direct
Electrical System (VCD)	V	24	24	24	24
Compression Ratio		18:01	17:01	17:01	17:01
Cylinder Volume	lt	12,88	12,88	14,20	25,8
Bore	mm	114	135	135	135
Stroke	mm	135	150	165	150
Aspiration		Turbocharger / Intercooler	Turbocharger / Intercooler	Turbocharger / Intercooler	Turbocharger / Intercooler
Speed	d/dk	1500	1500	1500	1500
Oil Capacity	lt	20	35	35	35
Fuel Type		Euro Diesel	Euro Diesel	Euro Diesel	Euro Diesel
Governor System		Elektronik	Elektronik	Elektronik	Elektronik
Cooling Method		Water Cooled	Water Cooled	Water Cooled	Water Cooled
Total Coolant Capacity		48	60	60	60
Continuous (Prime) Power fuel consumption	At Full Load	62	70	83	101
	%75 Load	50	52	62	77
	%50 Load	33	35	41	52
Alternator Model		KCS-314D	KCS-314D	KCS-314E	KCS-354B
Frequency	Hz	50	50	50	50
Power	kVA	385	385	440	500
Voltage	V	230 / 400	230 / 400	230 / 400	230 / 400
Phase		3	3	3	3
Automatic Voltage Regulator		AS440	AS440	AS440	AS440
Voltage Regulation		±1%	±1%	±1%	±1%
Insulation Class		H	H	H	H
Protection Class		IP 23	IP 23	IP 23	IP 23
Power Factor	cos φ	0.8	0.8	0.8	0.8
Weight with / without Cabinet	kg	3150 / 2585	3300 / 2735	3550 / 2985	3750 / 3185
Width with / without Cabinet	mm	1500 / 1500	1500 / 1500	1500 / 1500	1500 / 1500
Length with / without Cabinet	mm	3500 / 3500	3500 / 3500	3500 / 3500	3500 / 3500
Height with / without Cabinet	mm	1750 / 1600	1750 / 1600	1750 / 1600	1750 / 1600
Fuel Tank Capacity	lt	600	600	600	600

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MODEL		KSS 525	KSS 620	KSS 680	KSS 750
Stand By	kVA	525	620	680	750
	kW	420	496	544	600
Prime	kVA	472	558	618	682
	kW	378	446	495	545
Continuous Current	A	382	804	952	1050
Engine		SHANGHAI	SHANGHAI	SHANGHAI	SHANGHAI
Engine Model		SC13H516	SC26H571	SC26H612	SC26H680
Number of Cylinder and Type		6 INLINE	12 V TYPE	12 V TYPE	12 V TYPE
Injection and System Type		Direct	Direct	Direct	Direct
Electrical System (VCD)	V	24	24	24	24
Compression Ratio		17:01	18:01	18:01	17:01
Cylinder Volume	lt	26,6	26,6	28,3	28,3
Bore	mm	135	135	138	140
Stroke	mm	155	155	165	160
Aspiration		Turbocharger / Intercooler	Turbocharger / Intercooler	Turbocharger / Intercooler	Turbocharger / Intercooler
Speed	d/dk	1500	1500	1500	1500
Oil Capacity	lt	35	48	48	48
Fuel Type		Euro Diesel	Euro Diesel	Euro Diesel	Euro Diesel
Governor System		Electronic	Electronic	Electronic	Electronic
Cooling Method		Water Cooled	Water Cooled	Water Cooled	Water Cooled
Total Coolant Capacity		60	140	140	140
Continuous (Prime)	At Full Load	113	135	143	156
Power fuel consumption	%75 Load	87	100	109	119
	%50 Load	58	76	73	80
Alternator Model		KCS-354C	KCS-354CC	KCS-354DC	KCS-354E
Frequency	Hz	50	50	50	50
Power	kVA	550	630	687	748
Voltage	V	230 / 400	230 / 400	230 / 400	230 / 400
Phase		3	3	3	3
Automatic Voltage Regulator		AS440	AS440	AS440	AS440
Voltage Regulation		±1%	±1%	±1%	±1%
Insulation Class		H	H	H	H
Protection Class		IP 23	IP 23	IP 23	IP 23
Power Factor	cos φ	0.8	0.8	0.8	0.8
Weight with / without Cabinet	kg	3900 / 3335	5450 / 4750	5670 / 4970	5910 / 5210
Width with / without Cabinet	mm	1500 / 1500	1600 / 1600	1600 / 1600	1600 / 1600
Length with / without Cabinet	mm	3500 / 3500	4000 / 4000	4000 / 4000	4000 / 4000
Height with / without Cabinet	mm	2100 / 1800	2100 / 1800	2100 / 1800	2100 / 1800
Fuel Tank Capacity	lt	600	710	710	710

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MODEL			KSS 840	KSS 1100
Stand By		kVA	840	1100
		kW	672	880
Prime		kVA	756	1000
		kW	605	800
Continuous Current		A	1091	1540
Engine			SHANGHAI	SHANGHAI
Engine Model			SC28H843	SC28H1100
Number of Cylinder and Type			12 V TYPE	12 V TYPE
Injection and System Type			Direct	Direct
Electrical System (VCD)		V	24	24
Compression Ratio			17:01	17:01
Cylinder Volume		lt	30,01	30,01
Bore		mm	140	140
Stroke		mm	160	160
Aspiration			Turbocharger / Intercooler	Turbocharger / Intercooler
Speed		d/dk	1500	1500
Oil Capacity		lt	48	48
Fuel Type			Euro Diesel	Euro Diesel
Governor System			Electronic	Electronic
Cooling Method			Water Cooled	Water Cooled
Total Coolant Capacity			150	150
Continuous (Prime)	At Full Load		187	201
Power fuel consumption	%75 Load	lt	142	168
	%50 Load		95	106
Alternator Model			KCS-404C	KCS-404E
Frequency		Hz	50	50
Power		kVA	880	1170
Voltage		V	230 / 400	230 / 400
Phase			3	3
Automatic Voltage Regulator			AS440	AS440
Voltage Regulation			±1%	±1%
Insulation Class			H	H
Protection Class			IP 23	IP 23
Power Factor		cos φ	0.8	0.8
Weight with / without Cabinet		kg	6700 / 5905	7100 / 6305
Width with / without Cabinet		mm	1600 / 1600	1600 / 1600
Length with / without Cabinet		mm	4500 / 4500	4500 / 4500
Height with / without Cabinet		mm	2100 / 1800	2100 / 1800
Fuel Tank Capacity		lt	800	800

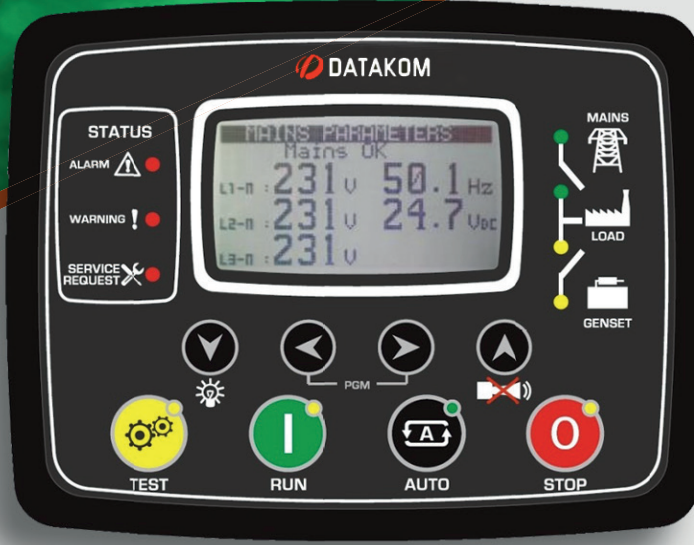
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# Control Panel

## Technical Specifications

- » Diesel and gas generator support
- » 400 Hz generator support
- » Event recording with 400x metric values
- » All parameters can be changed from the front panel
- » 3-level program password
- » 128x64 pixel graphic LCD
- » Language installation
- » Current-voltage waveform
- » Current-voltage harmonic analysis
- » 16Amp/250V CC/JK output
- » 8 programmed digital inputs
- » 6 programmed digital outputs
- » 3 programmed analog inputs
- » CANBUS-J1939 & MPU input
- » 3 programmed service alarms
- » Multiple automated test programs
- » Weekly work schedule
- » Dual generator support, equal aging
- » Fine speed adjustment (some ECUs)
- » Automatic fuel pump control
- » Protections cancellation feature
- » Overpower protection
- » Reverse power protection
- » Overcurrent IDMT protection
- » Load shedding, dummy load
- » Multiple load shedding programs
- » Current imbalance protection
- » Voltage imbalance protection
- » Refueling and theft alarms
- » Battery-assisted real-time clock
- » Idle speed control
- » Battery charging operation
- » Battle mode support
- » Multiple nominal requirement definitions
- » Contactor and motor switch drive
- » 4 quarter energy meters
- » Mains energy meters
- » Fuel filling counter
- » Fuel consumption counter
- » Modem diagnostics page
- » Parameter setting via USB, RS-232 and GPRS
- » Free configuration software
- » Possibility of control via SMS
- » Ready for centralized monitoring
- » Mobile generator support
- » Automatic GSM geolocation
- » GPS connection (RS232)
- » Throwing software via USB
- » IP65 protection (with seal)



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