

Yorking YDY22S3

Main Configuration		
Model (Sound-proof)		YDY22S3
Engine brand		YTO
Engine model		YSD490D
Alternator brand		YORKING
Alternator model		Y184ES
Controller brand		SMARTGEN
Controller model		HGM 4020N
Electrical Performance		
Frequency	Hz	50
Prime power	kVA	20
	kW	16
Standby power	kVA	22
	kW	18
Rated voltage	V	230/400
Rated current	A	28,9
Power factor	cosφ	0,8
Frequency droop δf	%	≤5
Steady-state frequency band β	%	≤1.5
Steady-state voltage regulation	%	≤±2.5
Transient frequency deviation(Sudden increase) δf _{dyn} ⁺	%	≤-10
Transient frequency deviation(Sudden decrease) δf _{dyn} ⁻	%	≤+12
Frequency recovery time t _r	S	≤5

Transient voltage deviation(Sudden increase) δU_{dyn}^+	%	≤ -20
Transient voltage deviation(Sudden decrease) δU_{dyn}^-	%	$\leq +25$
Voltage recovery time t_U	S	≤ 6
Main genset data		
Dimension (Sound-proof type)(L×W×H)	mm	1890*910*1160
Net weight (Sound-proof type)	kg	770
Fuel tank capacity	L	92
Continuous running time@100%load	Hr	15
Noise level@7m	dBa	93
Noise level@7m	dBa	51
Alternator		
Brand		YORKING
Model		Y184ES
Wiring type		Star-series
Rated Power@1500rpm	kW	16
Efficiency	%	84,9
Excitation type		Self-excitation
Telephone interference factor (TIF)		< 50
Telephone harmonic factor (THF)		< 2%
Protection		H
Insulation		IP23
Engine		
Brand		YTO
Model		YSD490D

Rated power@1500rpm	kW	21
No. of cylinders		4
Cylinder arrangement		Vertical
Cooling system		Water cooled
Bore	mm	90
Stroke	mm	100
Displacement	L	2,54
Compression ratio		18
Governor type		Mechanical
Inlet System		
Aspiration type		Natural
Max inlet resistance	kPa	3,5
Air flow	m ³ /min	1,42
Exhaust System		
Exhaust gas temp(after Turbo)	°C	500
Exhaust flow	m ³ /min	3,68
Max exhaust back pressure	kPa	6
Lubricating System		
Oil capacity	L	8
Oil grade		CD 15W-40
Oil consumption (as % of fuel consumption)		0,75%
Low Oil Pressure Warning	kPa	100
Cooling System		
Coolant Capacity for Engine	L	5
Coolant capacity (w/radiator)	L	9
Max. Coolant Warning	°C	95

Temperature		
Max temp of radiator	°C	50
Fuel System		
Injection method		Direct
Fuel consumption (50%)	L/h	2,98
Fuel consumption (75%)	L/h	4,05
Fuel consumption (100%)	L/h	5,45
Starting System		
Starter capacity	KW	3,5
Starting voltage	V	12
Battery capacity	Ah	60
Preheat available for all models		
Communication module SmartGen CMM366-4G compatible with all models		