

Yorking YDY89S3

Main Configuration		
Model (Sound-proof)		YDY89S3
Engine brand		YTO
Engine model		Y4110ZLD
Alternator brand		YORKING
Alternator model		Y224G
Controller brand		SMARTGEN
Controller model		HGM 4020N
Electrical Performance		
Frequency	Hz	50
Prime power	kVA	80
	kW	64
Standby power	kVA	89
	kW	71
Rated voltage	V	230/400
Rated current	A	115,5
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	2520*1050*1440
Net weight (Sound-proof type)	kg	1380
Fuel tank capacity	L	164
Continuous running time@100%load	Hr	8
Noise level@7m	dBa	93
Noise level@7m	dBa	53
Alternator		
Brand		YORKING
Model		Y224G
Wiring type		Star-series
Rated Power@1500rpm	kW	68
Efficiency	%	90,2
Excitation type		Self-excitation
Telephone interference factor (TIF)		< 50
Telephone harmonic factor (THF)		< 2%
Protection		H
Insulation		IP23
Engine		
Brand		YTO
Model		Y4110ZLD

Rated power@1500rpm	kW	80
No. of cylinders		4
Cylinder arrangement		Vertical
Cooling system		Water cooled
Bore	mm	110
Stroke	mm	118
Displacement	L	4,087
Compression ratio		18
Governor type		Electronic
Inlet System		
Aspiration type		Turbocharged
Max inlet resistance	kPa	4,9
Air flow	m ³ /min	5,31
Exhaust System		
Exhaust gas temp(after Turbo)	°C	550
Exhaust flow	m ³ /min	13,53
Max exhaust back pressure	kPa	6
Lubricating System		
Oil capacity	L	17
Oil grade		CF 15W-40
Oil consumption (as % of fuel consumption)		0,82%
Low Oil Pressure Warning	kPa	100
Cooling System		
Coolant Capacity for Engine	L	7,2
Coolant capacity (w/radiator)	L	18,7
Max. Coolant Warning	°C	95

Temperature		
Max temp of radiator	°C	50
Fuel System		
Injection method		Direct
Fuel consumption (50%)	L/h	12,59
Fuel consumption (75%)	L/h	16,27
Fuel consumption (100%)	L/h	20,94
Starting System		
Starter capacity	KW	5
Starting voltage	V	24
Battery capacity	Ah	2x80
Preheat available for all models		
Communication module SmartGen CMM366-4G compatible with all models		