

Yorking YDY70S3

Main Configuration		
Model (Sound-proof)		YDY70S3
Model (Open type)		YDY70E3
Model (Ultra silent)		YDE70SS3
Engine brand		YTO
Engine model		YD4EZLD
Alternator brand		YORKING
Alternator model		Y224EL
Controller brand		SMARTGEN
Controller model		HGM 4020N
Electrical Performance		
Frequency	Hz	50
Prime power	kVA	62
	kW	50
Standby power	kVA	70
	kW	56
Rated voltage	V	230/400
Rated current	A	89,5
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_f	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
Dimension (Open type) (L×W×H)	mm	2100*900*1350
Dimension (Ultra silent type) (L×W×H)		2350*970*1350
Net weight (Sound-proof type)	kg	1256
Net weight (Open type)	kg	956
Net weight (Ultra silent type)	kg	1310
Fuel tank capacity	L	164
Continuous running time@100%load	Hr	10
Noise level@7m	dBa	93
Noise level@7m	dBa	53
Alternator		
Brand		YORKING
Model		Y224EL
Wiring type		Star-series
Rated Power@1500rpm	kW	50
Efficiency	%	88,6
Excitation type		Self-excitation
Telephone interference factor (TIF)		< 50

Telephone harmonic factor (THF)		<2%
Protection		H
Insulation		IP23
Engine		
Brand		YTO
Model		YD4EZLD
Rated power@1500rpm	kW	63
No. of cylinders		4
Cylinder arrangement		Vertical
Cooling system		Water cooled
Bore	mm	105
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	4,84
Exhaust System		
Exhaust gas temp(after Turbo)	°C	550
Exhaust flow	m ³ /min	12,33
Max exhaust back pressure	kPa	6
Lubricating System		
Oil capacity	L	13
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	14,1
Max. Coolant Warning Temperature	°C	95
Max temp of radiator	°C	50
Fuel System		
Injection method		Direct
Fuel consumption (50%)	L/h	9,92
Fuel consumption (75%)	L/h	13,39
Fuel consumption (100%)	L/h	16,87
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		