

Yorking YDY22S

Main Configuration		
Model (Sound-proof)		YDY22S
Engine brand		YTO
Engine model		Y495D
Alternator brand		YORKING
Alternator model		Y164G/1P
Controller brand		SMARTGEN
Controller model		HGM 4020N
Electrical Performance		
Frequency	Hz	50
Prime power	kVA	20
	kW	20
Standby power	kVA	22
	kW	22
Rated voltage	V	230
Rated current	A	86,9
Power factor	cosφ	1
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	1890*910*1160
Net weight (Sound-proof type)	kg	830
Fuel tank capacity	L	92
Continuous running time@100%load	Hr	13
Noise level@7m	dBa	93
Noise level@7m	dBa	51
Alternator		
Brand		YORKING
Model		Y184G/1P
Wiring type		Series connection
Rated Power@1500rpm	kW	21
Efficiency	%	83,9
Excitation type		Self-excitation
Telephone interference factor (TIF)		< 50
Telephone harmonic factor (THF)		$< 2\%$
Protection		H
Insulation		IP23
Engine		
Brand		YTO
Model		Y495D
Rated Power@1500rpm	kW	27

No. of cylinders		4
Cylinder arrangement		Vertical
Cooling system		Water cooled
Bore	mm	95
Stroke	mm	105
Displacement	L	2,977
Compression ratio		18
Governor type		Mechanical
Inlet System		
Aspiration type		Natural
Max inlet resistance	kPa	3,5
Air flow	m ³ /min	1,66
Exhaust System		
Exhaust gas temp(after Turbo)	°C	500
Exhaust flow	m ³ /min	4,3
Max exhaust back pressure	kPa	6
Lubricating System		
Oil capacity	L	8
Oil grade		CD 15W-40
Oil consumption (as % of fuel consumption)		0,72%
Low Oil Pressure Warning	kPa	100
Cooling System		
Coolant Capacity for Engine	L	5
Coolant capacity (w/radiator)	L	9
Max. Coolant Warning Temperature	°C	95
Max tem of radiator	°C	50
Fuel System		

Injection method		Direct
Fuel consumption (50%)	L/h	5,27
Fuel consumption (75%)	L/h	6,15
Fuel consumption (100%)	L/h	6,87
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		