

RDC 12 STA



PORTABLE PRODUCT SERIES

Diesel Engine Inverter Generator General Generator Super Silent Generator Water Pump





PORTABLE PRODUCT SERIES

Welcome to Ray10

We are the manufacturer to make engines more agile and innovative. Ray10 is designed to be an environmentally friendly product. In everything we do, we strive for preciseness and excellence. Our

success is measured by your experience.







Diesel Engine





Single Cylinder Diesel Engine



Diesel Engine	iti	RD170F	RD178F
Туре		Single-cylinder, vertical, air-cooled, four-stroke, direct injection	Single-cylinder, vertical, air-cooled, four-stroke, direct injection
Bore× Stroke (mm)		70×55	78×62
Displacement	L	0.211	0.296
Compression ratio		20	20
Rated power/Rated speed	kW/r/min	2.5/3000 2.8/3600	3.68/3000 4/3600
The lowest speed at zero load	r/min	<1300	<1300

Lubricating system		Pressure splashed	Pressure splashed	
Starting system		Recoil starter or Electric starter	Recoil starter or Electric starter	
Rotation direction (face to the output axle)		Anticlockwise	Anticlockwise	
Fuel tank capacity	L	2.5	3.5	
Fuel consumption	(g/kW.h)/r/min	280.23000 288.3/3600	276.1/3000 285.6/3600	
Lube oil type		CD grade or SAE 10W-30, 15W-40	CD grade or SAE 10W-30, 15W-40	
Lube oil capacity	L	0.75	1.1	
Starting Motor Capacity	V, kW	12V 0.8kW	12V 0.8kW	
Charging Generator Capacity	V, A	12V 3A	12V 3A	
Accumulator Capacity	V, Ah	12V 24Ah-36Ah	12V 24Ah-36Ah	
Overall dimension(L×W×H)	mm	335×380×415	385X420X450	
Dry weight	kg	<27	<33	

Single-Cylinder Diesel Engine



Diesel Engine		RD186F	RD186FA	RD192F
Туре		Single-cylinder, vertical, air-cooled, four-stroke, direct injection	Single-cylinder, vertical, air-cooled, four-stroke, direct injection	Single-cylinder, vertical, air-cooled, four-stroke, direct injection
Borex Stroke (mm)		86×70	86×72	92×75
Displacement	L	0.406	0.418	0.499
Compression ratio		19	19	19.5
Rated power/Rated speed	kW/r/min	5.70/3000 6.3/3600	5.70/3000 6.3/3600	7.60/3000 8.6/3600
The lowest speed at zero load	r/min	1300	1300	1300
Lubricating system		Pressure splashed	Pressure splashed	Pressure splashed
Starting system		Recoil starter or Electric starter	Recoil starter or Electric starter	Recoil starter or Electric starter
Rotation direction (face to the output axle)		Anticlockwise	Anticlockwise	Anticlockwise
Fuel tank capacity	L	5.5	5.5	5.5
Fuel consumption	(g/kW.h)/r/min	275.1/3000 281.5/3600	275.1/3000 281.5/3600	260/3000 270/3600
Lube oil type		CD grade or SAE 10W-30, 15W-40	CD grade or SAE 10W-30, 15W-40	CD grade or SAE 10W-30, 15W-40
Lube oil capacity	L	1.65	1.65	1.65
Starting Motor Capacity	V, kW	12V 0.8kW	12V 0.8kW	12V 1.2kW
Charging Generator Capacity	V, A	12V 3A	12V 3A	12V 3A
Accumulator Capacity	V, Ah	Above 12V 36Ah	Above 12V 36Ah	Above 12V 36Ah
Overall dimension(L×W×H)	mm	420×440×495	420×440×495	417×444×494
Dry weight	kg	<47	< 47	<50

Two-Cylinder Diesel Engine

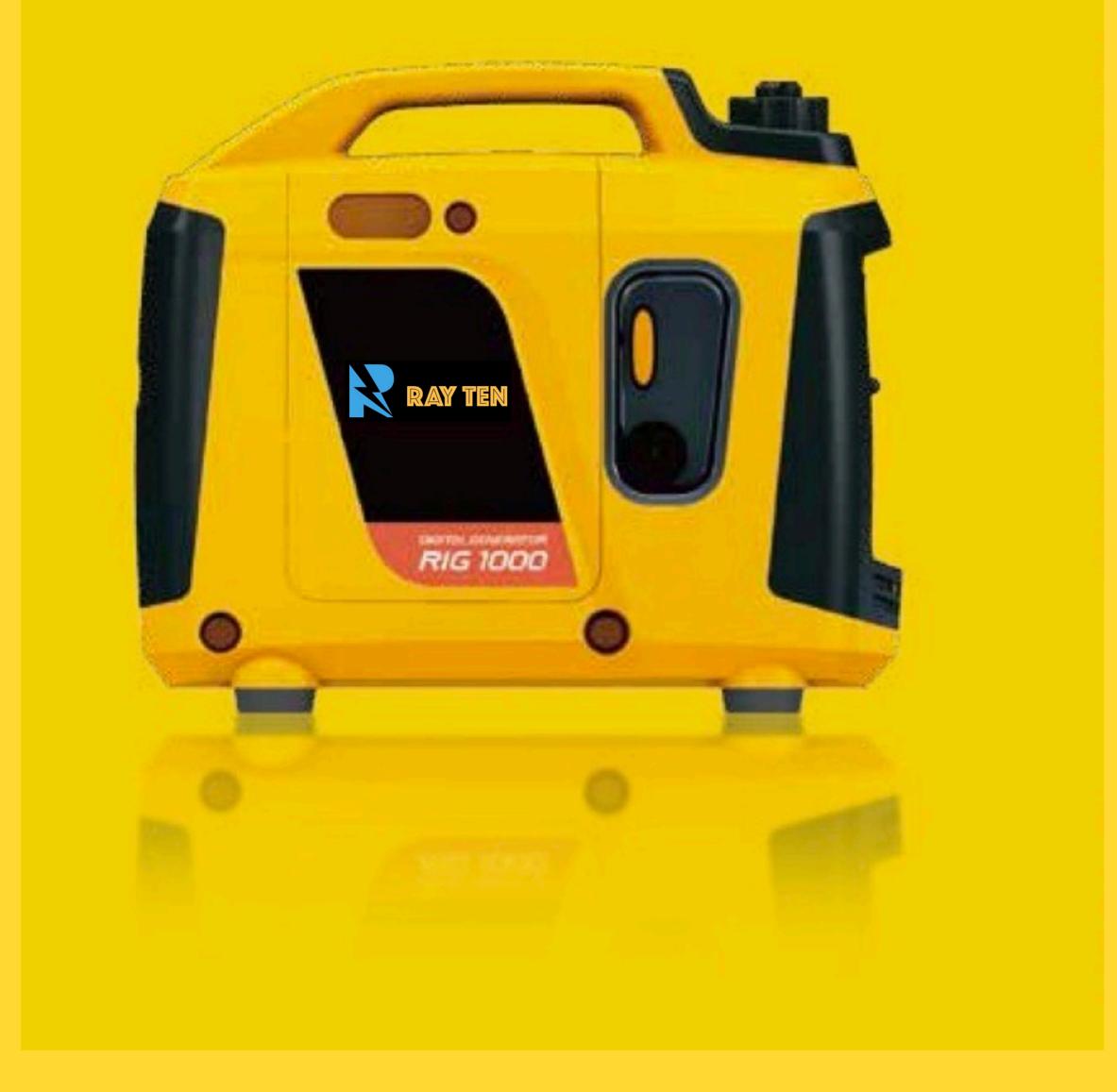


Diesel Engine		RD2V80	RD292F
Туре		V-twin, water-cooled, four-stroke	V-twin, air-cooled, four-stroke
Borex Stroke (mm)		80×79	92x75
Displacement	L	0.794	0.997
Compression ratio		23	19
Rated power/Rated speed	kW/r/min	12.5/3000, 14.5/3600	14/3000 15/3600
Lowest rotation speed at zero load	r/min	< 900	<1000

Lubricating system		Pressure splashed	Pressure splashed	
Starting system		Electric starter	Electric starter	
Rotation direction ((face to the output axle)		Anticlockwise	Anticlockwise	
Fuel type		0#,-10#,-20# diesel	0#,-10#,-20# diesel	
Fuel consumption	(g/kW.h)/r/min	285/3000, 297/3600	260/3000 277/3600	
Lube oil type		CD grade or SAE 10W-30, 15W-40	CD grade or SAE 10W-30, 15W-40	
Lube oil capacity	L	2.27	2.75	
Starting Motor Capacity	V, kW	12V 1.4kW	12V 1.4kW	
Charging Generator Capacity	V, A	12V 20A	12V 20A	
Battery capacity	V, Ah	12V 60Ah	12V 60Ah	
Overall dimension(L×W×H)	mm	616×486×528	485×460×580	
Dry weight	kg	57.5	85	



Inverter Generator







Inverter Generator sets



Generating set		RIG1000	RIG2000	
Rated frequency	Hz	50 60	50 60	
Rated power	kVA	0.9	1.8	
Max. power	kVA	1.0	2.0	
Rated voltage	v	230 120/240	230 120/240	
Rated current	А	3.9 7.5/3.75	7.8 15/7.5	
Rated rotation speed	r/min	5500	4500	
DC output		12V-5.0A	12V-5.0A	
Power factor	COSΦ	1	1	
Phase number		Single phase	Single phase	
Engine				
Engine type		RG144	RG160	
Structure type		Single cylinder, 4-stroke, air cooled, overhead valve	Single cylinder, 4-stroke, air cooled, overhead camshaft	
Bore×stroke	mm	43.5×35.8	60×40	
Displacement	L	0.532	0.113	
Compression ratio		7.6	9.1	
Rated power	kW/(r/min)	1.35/5500	2.3/5000	
Lube oil brand		Above SF SAE 10W-30、15W-40	Above SF SAE 10W-30、15W-40	
Lube capacity	L	0.2	0.4	
Ignition system		T.C.I	T.C.I	
Spark plug		CR7HSA	CR7HSA	
Starting system		Recoil starter	Recoil starter	
Fuel type		Vehicle lead-free petrol	Vehicle lead-free petrol	
Lowest fuel consumption(g/KW.h)	g/kW.h	480	400	
Genset				
Fuel consumptiom	g/kW.h	550	550	
Fuel tank capacity	L	2.6	3.7	
Continuous running time(hr)(rated output)	h	3.8	3	
Noise(unload-full load)	dB(A)/7m	54-59	61-73	
Overall dimensions	mm	460×259×395	530×290×425	
Net weight	kg	14	22	
Structure type		Portable, silent	Portable, silent	



Inverter Generator sets

Generating set		RIG3000	RIG6000
Rated frequency	Hz	50 60	50 60
Prime power	kVA	2.8	5.5
Standby power	kVA	3	6
Rated voltage	v	230 120/240	230 120/240
Rated current	A	12.2 23.3/11.7	23.9 45.8/22.9
Rated rotation speed	r/min	3600	3600
DC output		12V-5.0A	12V-5.0A
Power factor	COSΦ	1	1
Phase number		Single phase	Single phase
Engine			
Engine type		RG205GETi	RG390GETi
Structure type		Single-cylinder, 4 stroke,air cooled, overhead valve	Single-cylinder, 4 stroke,air cooled, overhead valve
Bore×stroke	mm	68×54	88×64
Displacement	L	0.196	0.389
Compression ratio		8.5:1	8.5 : 1
Rated power	kW/(r/min)	4/3600	7.7/3600
Lube capacity	L	0.6	1.1
Ignition system		T.C.I	T.C.I
Spark plug		WR7DC	WR7DC
Starting system		Recoil starter, electric system	Electric system
Battery capacity		12V – 8Ah	12V – 11Ah
Fuel type		Vehicle lead-free petrol	Vehicle lead-free petrol
Lowest fuel consumption(g/KW.h)	g/kW.h	395	374
Genset			
Fuel consumptiom	g/kW.h	500	500
Fuel tank capacity	L	13	22
Continuous running time(hr)(rated output)	h	6.7	6
Noise(unload-full load)	dB(A)/7m	63-73 65-75	
Overall dimensions	mm	685×430×495	802×495×655
Net weight	kg	57	96.5



General Generator









Generator set		RDE6500E		RDE6500	E3	
Rated frequency	Hz	50	60	50	60	
Rated power	kVA	4.5	5.0	5.5	6.3	
Max. power	kVA	5.0	5.5	6.0	7.0	
Rated voltage	v	115/230	120/240	400/230	416/240	
Rated current	А	39.1/19.6	41.7/20.8	7.9	8.7	
Rated rotation speed	r/min	3000	3600	3000	3600	
Generator						
Pole No.			2	2		
Phase number		Single	e phase	Three pl	nase	
Excitation mode		Self-exciation and con	stant voltage(with IAVR)	Self-exciation and consta	nt voltage(with iAVR)	
Power factor	COSΦ		1.0	0.8(lag	g)	
Insulation grade			F	F		
Engine						
Engine type		RD	186FAG	RD186	FAG	
Structure type		Single-cylinder, vertical, 4-stroke, air-cooled, direct-injected		Single-cylinder, v air-cooled, dir		
Bore x stroke	mm	86×72		86×	72	
Displacement	L		0.418	0.4	18	
Compression ratio			19:1	19:	:1	
Rated power	kW	5.7	6.3	5.7	6.3	
Lubrication system		Pressu	re splashed	Pressure	plashed	
Lube oil brand		Above CD or S	AE 10W-30, 15W-40	Above CD or SAE	10W-30, 15W-40	
Lube capacity	L		1.65	1.6	1.65	
Starting system		12V Ele	ectric starter	12V Electr	ic starter	
Charging generator capacity	V-Ah	12	V 36Ah	12V 3	86Ah	
Fuel consumption ratio	g/kW.h	260.8	265.7	260.8	265.7	
Fuel type		Diesel : 0# (summer), -	10# (winter), -35# (chillness)	Diesel : 0# (summer), -10#	(winter), -35# (chillness)	
Genset						
Panel type		Gen	eral panel	General	panel	
Output	Receptacle	2-Sin	gle phase	1-Single phase,	1-three phase	
Output	Connection pole	w	ithout	with	out	
Nosie level(7m)	dB(A)		77	78	3	
Fue tank capacity	L		13.5	13.	5	
Overall dimensions	mm	720>	<492×655	720×49	2×655	
Net weight	kg		100	10	0	



Generator set		RDE6500T		RDE	6500T3	
Rated frequency	Hz	50	60	50	60	
Rated power	kVA	4.5	5.0	5.5	6.3	
Max. power	kVA	5.0	5.5	6.0	7.0	
Rated voltage	v	115/230	120/240	400/230	416/240	
Rated current	А	39.1/19.6	41.7/20.8	7.9	8.7	
Rated rotation speed	r/min	3000	3600	3000	3600	
Generator						
Pole No.			2		2	
Phase number		Single	e phase	r	Three phase	
Excitation mode		Self-exciation and cons	stant voltage(with IAVR)	Self-exciation and	constant voltage(with IAVR)	
Power factor	COSΦ	1	1.0		0.8(lag)	
Insulation grade			F		F	
Engine						
Engine type		RD186FAGET RD186FAGET		RD186FAGET		
Structure type		Single-cylinder, vertical, 4-stroke, air-cooled, direct-injected			Single-cylinder, vertical, 4-stroke, air-cooled, direct-injected	
Bore x stroke	mm	86×72			86×72	
Displacement	L	(0.418		0.418	
Compression ratio			19:1		19:1	
Rated power	kW	5.7	6.3	5.	7 6.3	
Lubrication system		Pressu	re splashed	Pr	essure splashed	
Lube oil brand		Above CD or S/	AE 10W-30, 15W-40	Above CD	or SAE 10W-30, 15W-40	
Lube capacity	L		1.65		1.65	
Starting system		12V Ele	ctric starter	12	12V Electric starter	
Charging generator capacity	V-Ah	12	/ 36Ah		12V 36Ah	
Fuel consumption ratio	g/kW.h	260.8	265.7	26	0.8 265.7	
Fuel type		Diesel : 0# (summer), -1	0# (winter), -35# (chillness)	Diesel : 0# (summe	er), -10# (winter), -35# (chillness)	
Genset						
Panel type		Gene	eral panel		General panel	
Output	Receptacle	2-Sin	gle phase	1-Single	e phase,1-three phase	
	Connection pole	without			without	
Nosie level(7m)	dB(A)		72		72	
Fue tank capacity	L		15		15	
Overall dimensions	mm	910×	530×740		910×530×740	
Net weight	kg		145		148	



Generator set		RDE1	RDE15000EA		5000EA3	
Rated frequency	Hz	50	60	50	60	
Rated power	kVA	9.0	10	11.25	12.5	
Max. power	kVA	10	11	12.5	13.75	
Rated voltage	v	115/230	120/240	400/230	416/240	
Rated current	Α	78.2/39	83.3/41.6	16.3	17.4	
Rated rotation speed	r/min	3000	3600	3000	3600	
Generator						
Pole No.			2		2	
Phase number		Sing	le phase	Thr	ee phase	
Excitation mode		Self-exciation and cor	nstant voltage(with iAVR)	Self-exciation and co	onstant voltage(with iAVR)	
Power factor	COSΦ		1.0	().8(lag)	
Insulation grade			В		В	
Engine						
Engine type		W	WS2V88A WS2V88A		W52V88A	
Structure type		V-twin, four stroke, direct injection, air cooling			n, four stroke, ection, air cooling	
Bore x stroke	mm	88×72			88×72	
Displacement	L		0.87		0.87	
Compression ratio			19:1		19:1	
Rated power	kW	13	14	13	14	
Lubrication system		Press	ure splashed	Pres	sure splashed	
Lube oil brand		Above CD or S	5AE 10W-30, 15W-40	Above CD or	SAE 10W-30, 15W-40	
Lube capacity	L		2.3		2.3	
Starting system		12V E	ectric starter	12VI	Electric starter	
Charging generator capacity	V-Ah	12	2V 36Ah	1	2V 36Ah	
Fuel consumption ratio	g/kW.h	270	280	270	280	
Fuel type		Diesel : 0# (summer), -	10# (winter), -35# (chillness)	Diesel : 0# (summer),	-10# (winter), -35# (chillness)	
Genset						
Panel type		Si	martgen	:	Smartgen	
Output	Receptacle	2-Si	ngle phase	2-5	ingle phase	
Calpar	Connection pole		with		with	
Nosie level(7m)	dB(A)		85		85	
Fue tank capacity	L		25		25	
Overall dimensions	mm	930	×600×650	93	0×600×650	
Net weight	kg		185		185	



Generator set		RDE7	DOOSTA	RDE70	RDE7000STA3		RDE12STA	
Rated frequency	Hz	50	60	50	60	50	60	
Rated power	kVA	4.2	4.6	5.25	5.75	8.5	9.0	
Max. power	kVA	4.6	5.0	5.75	6.25	9.5	10	
Rated voltage	v	115/230	120/240	400/230	416/240	115/230	120/240	
Rated current	А	36.5/18.3	38.3/19.2	7.6	8.0	73.9/37	75/37.5	
Rated rotation speed	r/min	3000	3600	3000	3600	3000	3600	
Generator								
Pole No.			2		2	3	2	
Phase number		Single	e phase	Three	e phase	Single	phase	
Excitation mode		Sel	f-exciation and consta	nt voltage(with IAVR)		Self-exciation and const	ant voltage(with AVR)	
Power factor	COSΦ		.0	0.8	(lag)	1	.0	
Insulation grade			в		в		В	
Engine								
Engine type		RD18	6FAGET-1	RD18	RD186FAGET-1		RD2V80G	
Structure type		Single-cylinder, vertical, 4-stroke, air-cooled, direct-injected			Single-cylinder, vertical, 4-stroke, air-cooled, direct-injected		V-twin, 4-stroke, water-cooled	
Bore x stroke	mm	86×72		1	86×72		80×79	
Displacement	L		0.418		0.418		0.794	
Compression ratio			19:1		19:1		23:1	
Rated power	kW	5.7	6.3	5.7	6.3	12.5	14.5	
Lubrication system		Pressu	re splashed	Pressu	Pressure splashed		Pressure splashed	
Lube oil brand		Above CD or S	AE 10W-30, 15W-40	Above CD or S	Above CD or SAE 10W-30, 15W-40		Above CD or SAE 10W-30, 15W-40	
Lube capacity	L		1.65		1.65		2.27	
Starting system		12V Ele	ectric starter	12V Ele	12V Electric starter		12V Electric starter	
Charging generator capacity	V-Ah	12	/ 36Ah	12	12V 36Ah		36Ah	
Fuel consumption ratio	g/kW.h	260.8	265.7	260.8	265.7	285	197	
Fuel type			D	iesel : 0# (summer), -10	0# (winter), -35# (chil	lness)		
Genset								
Panel type		Sm	hartgen	Sn	nartgen	Sm	artgen	
Output	Receptacle	2-Sin	gle phase	1-Single pha	1-Single phase,1-three phase		gle phase	
	Connection pole	w	ithout	v	without		with	
Nosie level(7m)	dB(A)		66		66		72	
Fue tank capacity	L		15		15		26	
Overall dimensions	mm	870>	645×710	870	<645×710	1350>	650×760	
Net weight	kg		175		175		310	



Super Silent









	Generator set		RDE	1853	RD	RDE25S3	
	Rated frequency	Hz	50	60	50	60	
		kVA	15	17.5	20	25	
	Prime power	kW	12	14	16	20	
Ger		kVA	17	21	22.5	30	
Generator set	Standby power	kW	13	15.4	18	24	
or set	Rated voltage	v	400/230	416/240	400/230	416/240	
	Rated current	А	21.7	24.3	29.0	34.7	
	Rated rotation speed	r/min	1500	1800	1500	1800	
	Control panel		Sma	Smartgen		martgen	
	Generator manufacturer		Xing	jnuo	×	lingnuo	
	Generator type		XN162E	XN162F	>	(N162G	
Generator	Pole No.			4		4	
rator	Excitation mode		Brushless, self-excitation and	Brushless, self-excitation and constant voltage (with AVR)		and constant voltage (with AVR)	
	Power factor	COSΦ	0.8(lag)		0.8(lag)		
	Insulation grade		н		н		
	Engine manufacturer		FAWDE			FAWDE	
	Engine type		4DW81-23D	4DW81-28D	4DW81-2	9D 4DW81-38D	
	Rated power	kW	19	22	21	31	
	Structure type		4-cylinder,in-lined,4	-stroke,water-cooled	4-cylinder,in-line	d,4-stroke,water-cooled	
	Bore x stroke	mm	85)	×95	9	90×100	
	Displacement	L	2.	16		2.54	
5	Compression ratio		17	7:1		17:1	
ingine	Lubricating system		Pressure	splashed	Press	ure splashed	
	Lube oil brand		Above CD grade or :	SAE 10W-30,15W-40	Above CD grade	or SAE 10W-30,15W-40	
	Fuel type		Diesel : 0# (summer), -10	# (winter), -35# (chillness)	Diesel : 0# (summer), -	10# (winter), -35# (chillness)	
	Engine fuel consumption	g/kW.h	24	40		240	
	Starting system		12V Elect	ric starter	12V E	lectric starter	
	Starting motor capacity		12V 3	3.5kW	12	V 3.5kW	
	Charging generator capacity		54A	14V	54A 14V		



	Generator set		RDE:	3053	RDE38S3		
	Rated frequency	Hz	50	60	50	60	
Generator set	Prime power	kVA	25	31	30	37.5	
		kW	20	25	24	30	
	Standby power	kVA	28	34	32.5	41	
		kW	22	27.5	26	33	
	Rated voltage	v	400/230	416/240	400/230	416/240	
	Rated current	Α	36.2	43.1	43.5	52.1	
	Rated rotation speed	r/min	1500	1800	1500	1800	
	Control panel		Smar	tgen	Smartgen		
	Generator manufacturer		Xing	nuo	Xingnuo		
	Generator type		XN184F	XN184G	XN182H	XN182K	
Generator	Pole No.		4		4		
rator	Excitation mode		Brushless, self-excitation and	constant voltage (with AVR)	Brushless, self-excitation and constant voltage (with AVR)		
	Power factor	COSΦ	0.8(lag)		0.8(lag)		
	Insulation grade		H	I.	н		
	Engine manufacturer	ine manufacturer		VDE	FAWDE		
	Engine type		4DW92-35D	4DW92-42D	4DX21-45D 4DX21-53D		
	Rated power	kW	26	26 34		35	
	Structure type		4-cylinder, in-lined, 4-stroke,	water-cooled,turbocharger	4-cylinder, in-lined, 4-stroke, water-cooled		
	Bore x stroke	mm	90×100		102×118		
	Displacement	L	2.5	54	3.86		
	Compression ratio		17:1		17:1		
	Lubricating system		Pressure splashed		Pressure splashed		
	Lube oil brand		Above CD grade or SAE 10W-30,15W-40		Above CD grade or SAE 10W-30,15W-40		
Engine	Fuel type		Diesel : 0# (summer), -10# (winter), -35# (chillness)		Diesel : 0# (summer), -10# (winter), -35# (chillness)		
ine	Engine fuel consumption	g/kW.h	23	0	230		
	Starting system		12V Elect	ric starter	24V Electric starter		
	Starting motor capacity		12V 3	.5kW	24V 4.5kW		
	Charging generator capacity		54A	14V	35A 28V		



	Generator set		RDE44S3		RDE80S3		RDE ¹	RDE110S3	
Generator set	Rated frequency	Hz	50	60	50	60	50	60	
	Prime power	kVA	40	43.5	67.5	81	100	106	
		kW	32	34	54	65	80	85	
	Standby power	kVA	43.75	46.75	73.5	89	110	116.5	
		kW	35	37.4	59	71.5	88	93.5	
or set	Rated voltage	v	400/230	416/240	400/230	416/240	400/230	416/240	
	Rated current	А	58.0	60.4	97.8	112.5	144.9	147.2	
	Rated rotation speed	r/min	1500	1800	1500	1800	1500	1800	
	Control panel		Smartgen		Smartgen		Smartgen		
	Generator manufacturer	Xingnuo		Inuo	Xingnuo		Xingnuo		
	Generator type		XN2	24C	XN224F	XN224G	XN274C	XN274D	
Generator	Pole No.		4		4		4		
rator	Excitation mode		Brushless, self-excitation and constant voltage (with AVR)		Brushless, self-excitation and constant voltage (with AVR)		Brushless, self-excitation and constant voltage (with AVR)		
	Power factor	COSΦ	0.8(lag)		0.8(lag)		0.8(lag)		
	Insulation grade		н		н		н		
	Engine manufacturer		FAV	WDE	FAWDE		FAWDE		
	Engine type		4DX22-50D	4DX22-60D	CA4110/125Z-09D CA4110/125Z-11D		CA6DF2D-14D	CA6DF2D-16D	
	Rated power	kW	37	43	65	77	96	112	
	Structure type		4-cylinde 4-stroke,water-co	er, in-lined, oled, turbocharger	4-cylinder 4-stroke,water-cod	,in-lined, bled,turbocharger	4-cylinder, in-lined, 4-stroke, water-cooled, turbocharger		
	Bore x stroke	mm	102×118		110×125		110×115		
	Displacement	L	3.86		4.75		6.55		
5	Compression ratio		17:1		17:1		17:1		
ingine	Lubricating system		Pressure splashed		Pressure splashed		Pressure splashed		
	Lube oil brand		Above CD grade or SAE 10W-30,15W-40		Above CD grade or SAE 10W-30,15W-40		Above CD grade or SAE 10W-30,15W-40		
	Fuel type		Diesel : 0# (summer), -10# ((winter), -35# (chillness)		Diesel : 0# (summer), -10# (winter), -35# (chillness)		
	Engine fuel consumption	g/kW.h	220		215		202		
	Starting system		24V Electric starter		24V Electric starter		24V Electric starter		
	Starting motor capacity		24V 4.5kW		24V 5kW		24V 6.2kW		
	Charging generator capacity		35A 28V		45A 28V		55A 28V		



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