

Building the Future

Diesel Engine-Driven Generators and
Welders for the European Market

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Denyo – Making a Difference

Denyo products can be found in use in more than 130 countries around the world on construction sites and in maintenance and power support operations, meeting the rapidly changing requirements of industry. Designed and crafted using innovative and advanced technology, Denyo products are built for the future.

Denyo Co., Ltd. supplies diesel engine-driven generating and welding units equipped with its own designed and manufactured alternator. This unique advantage brings the highest quality performance to users in terms of fuel cost and durability. Denyo's generators and welders are the most soundproof and environmentally safe units on the market today. These are the reasons Denyo is Japan's leading manufacturer and distributor of products that are synonymous with dependability.

on Worksites

Worldwide



GENERATORS

Denyo is a leading manufacturer of engine-driven generators and maintains a Japanese market share of 65%. The Company manufactures more than 500 models of diesel engine-driven generators and introduces 12 models for the EU market in 2008, rating from 5.5kVA units to units as large as 150kVA backed by cutting-edge, original technology. Generators are available in trailer mobile versions and primary and emergency use types and are durable, energy efficient and soundproof.

4-Pole Generators - Soundproof Type



Model	DCA-15ESEK	DCA-25ESEK	DCA-35ESEK	DCA-45ESEI	DCA-60ESEI	DCA-70ESEI	DCA-125ESEI	DCA-180ESEI
AC Generator								
Frequency	Hz		50	50	50	50	50	50
Output Rating	kVA		12.5	20	30	37	50	60
	Standby		13.8	22	31.5	40.7	55	66
No. of Poles			4	4	4	4	4	4
No. of Phases			3	3	3	3	3	3
Rated Voltage	V		380/400/415	380/400/415	380/400/415	380/400/415	380/400/415	380/400/415
Power Factor (lagging)			0.8	0.8	0.8	0.8	0.8	0.8
Voltage Regulation	%		Within ± 0.5					
Excitation	Brushless, rotating exciter (with A.V.R.)							
Insulation	Class F							

Engine (4-cycle, water-cooled diesel engine)

Model	Kubota D1703-E2B	Kubota V2203-E2B	Kubota V3300-E2B	Isuzu BB-4JG1T	Isuzu BB-4BG1T	Isuzu 4JJ1X	Isuzu 4HK1X	Isuzu 6HK1X
Type	Swirl chamber type			Direct injection, turbocharged type		Direct injection, turbocharged with after cooler		
Rated Output	kW		12.4	18.4	28.3	34.5	48.2	52.9
Rated Speed	min ⁻¹		1500	1500	1500	1500	1500	1500
No. of Cylinders			3	4	4	4	4	6
Bore x Stroke	mm		87 x 92.4	87 x 92.4	98 x 110	95.4 x 107	105 x 125	95.4 x 104.9
Displacement	L		1.647	2.197	3.318	3.059	4.329	2.999
Fuel	ASTM No. 2 diesel fuel or equivalent							
Fuel Tank Capacity	L		62	62	82	100	125	150
Fuel Consumption*	L/h		2.8	3.9	5.9	6.7	8.9	9.7
Lube Oil Capacity	L		5.6	7.6	13.2	10	13.2	17
Coolant Capacity	L		6.4	7.9	10.5	10.9	15.4	12
Battery x Quantity			12V - 65Ah x 1	12V - 65Ah x 1	12V - 70Ah x 1	12V - 70Ah x 1	12V - 110Ah x 1	12V - 110Ah x 1
								12V - 150Ah x 1
								12V - 100Ah x 2

Dimensions, Weight and Sound Power Level

Dimensions	Length	mm	1390	1540	1900	1900	2200	2400	3100	3500
	Width	mm	650	650	860	880	880	1000	1140	1200
	Height	mm	1050	1050	1130	1400	1400	1550	1650	1700
Dry Weight	kg		565	640	950	1040	1250	1530	2210	2760
Sound Power Level	LWAdB		88	85	89	89	91	93	93	94

* Fuel consumption is based on operation at 75% load.

4-Pole Generators - Ultra Soundproof Type



DCA-45USEI

Model	DCA-25USEI	DCA-45USEI
AC Generator		
Frequency	50	50
Output Rating	Continuous	20
	Standby	22
No. of Poles	4	4
No. of Phases	3	3
Rated Voltage	380/400/415	380/400/415
Power Factor (lagging)	0.8	0.8
Voltage Regulation	Within ± 0.5	
Excitation	Brushless, rotating exciter (with A.V.R.)	
Insulation	Class F	

Engine (4-cycle, water-cooled diesel engine)

Model	Isuzu 4LE2	Isuzu BB-4JG1T
Type	Direct injection type	Direct injection, turbocharged type
Rated Output	19.1	34.8
Rated Speed	1500	1500
No. of Cylinders	4	4
Bore x Stroke	85 x 96	95.4 x 107
Displacement	2.179	3.059
Fuel	ASTM No. 2 diesel fuel or equivalent	
Fuel Tank Capacity	92	170
Fuel Consumption*	3.5	6.7
Lube Oil Capacity	8.5	10
Coolant Capacity	6.4	13.7
Battery x Quantity	12V - 65Ah x 1	12V - 70Ah x 1

Dimensions, Weight and Sound Power Level

Dimensions	Length	1770	2090
	Width	790	950
	Height	1170	1470
Dry Weight	kg	785	1240
Sound Power Level	LWAdB	80	81

* Fuel consumption is based on operation at 75% load.

2-Pole Generators - Soundproof Type



DA-6000SSEK



TLG-18ESEK

Model	DA-6000SSEK	TLG-18ESEK
AC Generator		
Frequency	50	50
Output Rating	Continuous	5.5
	Standby	6.1
No. of Poles	2	2
No. of Phases	1	3
Rated Voltage	220	380/400/415
Power Factor (lagging)	1	0.8
Voltage Regulation	Within ± 6.0	Within ± 1.5
Excitation	Brushless, rotating exciter (with A.V.R.)	
Insulation	Class F	

Engine (4-cycle, water-cooled diesel engine)

Model	Kubota Z482-B	Kubota D1005-B
Type	Swirl chamber type	
Rated Output	6.5	16.5
Rated Speed	3000	3000
No. of Cylinders	2	3
Bore x Stroke	67 x 68	76 x 73.6
Displacement	0.479	1.001
Fuel	ASTM No. 2 diesel fuel or equivalent	
Fuel Tank Capacity	25	42
Fuel Consumption*	1.8	3.8
Lube Oil Capacity	2.05	5.1
Coolant Capacity	2.75	4.7
Battery x Quantity	12V - 45Ah x 1	12V - 45Ah x 1

Dimensions, Weight and Sound Power Level

Dimensions	Length	1140	1400
	Width	650	720
	Height	795	770
Dry Weight	kg	240	437
Sound Power Level	LWAdB	87	91

* Fuel consumption is based on operation at 75% load.

WELDERS

Denyo produces more than 50 models of diesel engine-driven welders and introduces three models in ranges spanning from 30A to 380A for the EU market. The Company maintains a 55% Japanese market share for welders. Its product line includes soundproof units and many which have features unique to Denyo welders, such as stable auxiliary AC power sources and idle-control systems that cut oil and fuel consumption by automatically reducing engine speed under no-load conditions. Denyo also produces a multipurpose welder which can be used for manual welding and TIG/MIG welding and gouging, and a DC dual welder for use by two operators simultaneously, supplying AC power.



DAW-300SSEK



DLW-300ESEW

Model	DAW-300SSEK		DLW-300ESEW		DLW-400ESEW	
			Full-range Operation	e-mode Operation	Full-range Operation	e-mode Operation

DC Welding Output

Rated Output	kW	DAW-300SSEK		DLW-300ESEW		DLW-400ESEW	
				Full-range Operation	e-mode Operation	Full-range Operation	e-mode Operation
Rated Output	kW	8.74	7.9	4.22	10.96	7.1	
Rated Current	Single	A	280	260	160	330	240
	Dual	A	–	130	80	165	120
Rated Voltage	Single	V	31.2	30.4	26.4	33.2	29.6
	Dual	V	–	25.2	23.2	26.6	24.8
Current Range	Single	A	30~300 (2200~3000min ⁻¹)	60~280	60~160	60~380	60~240
	Dual	A	–	30~140	30~80	30~190	30~120
Rated Speed	Single	min ⁻¹	3000	3000	2200	3000	2200
	Dual	min ⁻¹	–	3000	2200	3000	2200
Rated Duty Cycle	Single	%	50	50	100	60	100
	Dual	%	–	50	100	60	100
Applicable Electrode	Single	mm	2.0~6.0	2.0~6.0	2.0~4.0	2.0~8.0	2.0~5.0
	Dual	mm	–	2.0~3.2	2.0~2.6	2.0~4.0	2.0~3.2

3-Phase AC Power Output

		DAW-300SSEK	DLW-300ESEW	DLW-400ESEW		
Rated Output	kVA	–	9.9	–	13.2	–
Rated Voltage	V	–	380	–	380	–
Rated Current	A	–	15	–	20	–
Rated Speed	min ⁻¹	–	3000	–	3000	–
Frequency	Hz	–	50	–	50	–
Power Factor		–	0.8	–	0.8	–
Rating		–	Continuous	–	Continuous	–

Single-Phase AC Power Output

		DAW-300SSEK	DLW-300ESEW	DLW-400ESEW		
Rated Output	kVA	3	3.3 × 2	–	3.3 × 2	–
Rated Voltage	V	220	220	–	220	–
Rated Current	A	13.6	15 × 2	–	15 × 2	–
Frequency	Hz	50	50	–	50	–
Power Factor		1	1	–	1	–
Rating		Continuous	Continuous	–	Continuous	–

Engine (Vertical, 4-cycle, water-cooled diesel engine)

Model		Kubota D722	Kubota D905		Kubota D1005	
Type		Vertical, 4-cycle, water-cooled diesel engine, swirl chamber type				
Rated Output	kW	11.7	14.7	–	16.5	–
Rated Speed	min ⁻¹	3000	3000	–	3000	–
No. of Cylinders – Bore x Stroke	mm	3 – 67 x 68	3 – 72 x 73.6	–	3 – 76 x 73.6	–
Displacement	L	0.719	0.898	–	1.001	–
Fuel		ASTM No. 2 diesel fuel or equivalent				
Fuel Tank Capacity	L	19	36	–	42	–
Fuel Consumption*	L/h	2.1	2.33	1.46	3.24	2.18
Lube Oil Capacity	L	3.76	5.1	–	5.1	–
Coolant Capacity	L	3.8	4.7	–	4.7	–
Battery x Quantity		12V - 45Ah x 1 (55B24L)				

Dimensions, Weight and Sound Power Level

Dimensions	Length x Width x Height	mm	1270 x 680 x 740	1410 x 680 x 770	–	1520 x 720 x 770	–
Dry Weight		kg	310	415	–	470	–
Sound Power Level		LWAdB	90	89	–	92	–

* Rated welding load at rated duty cycle. e-mode data is calculated by rated duty cycle at full-range operation.

Global Network



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