

IWATA

HEAVY DUTY POWER GENERATOR
ヘビーデューティ パワー ジェネレーター



I-SERIES

Number One choice for reliability and consistent performance .

IWATA ENGINE

i Series » Water-cooled Diesel Generator

10Kw - 800Kw



WATER-COOLED

Diesel Generator
Diesel Generator
Diesel Generator

I Series Features

- ▶ 100% FULL POWER
- ▶ HEAVY DUTY POWDER COATING
- ▶ DEESEA DSE6020 CONTROLLER
- ▶ IWATA HEAVY DUTY ENGINE
- ▶ IWATA/STAMFORD ALTERNATOR
- ▶ EXTRA THICK STEEL PLATE CANOPY

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10Kw - 12Kw



16Kw - 24Kw

Generator Specification

MODEL	IW10WS	IW12WS	IW16WS	IW20WS	IW24WS
Frequency	50Hz	50Hz	50Hz	50Hz	50Hz
Rated Power KW	10kw	12kw	16kw	20kw	24kw
Max power KW	11kw	13.2kw	17.6kw	22kw	26.4kw
Rated voltage (V)	230 1Ph	230/400 3Ph	230/400 3Ph	230/400 3Ph	230/400 3Ph
Rated current A	43.5	21.7	28.9	36.1	43.3
Rated speed r/min	1500	1500	1500	1500	1500
Starting Mode	12v	12v	12v	12v	12v
Fuel tank capacity (Liter)	45	45	63	63	80
Operational time on single tank fuel(hrs)	18	15	17	14.6	15.3
Noise level(dB(A)/ 7m)	66	65	67	67	67
Dimension L.W.H.(mm)	1650*780*950	1650*780*950	2000*850*1060	2000*850*1060	2000*850*1060
Net weight (kg)	650kgs	720kgs	780kgs	850kgs	980kgs

Engine Specification

Engine Model	480D	485D	490D	490ZD	490ZLD
Engine manufacturer	IWATA	IWATA	IWATA	IWATA	IWATA
Bore*Stroke (mm)	85*90	85*100	90*100	90*100	90*100
Displacement (L)	1.81	2.27	21.6	2.54	2.54
12hrs Power (kw)	14	17	21	26	31
Fuel Cons. at Full Load L/h	2.5L/h	3.0L/h	3.7L/h	4.3L/h	5.2L/h
Engine Type	Water cooled , 4-stroke,Direct injection				
Cylinder No.	3	4	4	4	4
Compression Ratio	17:1	17:1	17:1	17:1	17:1
Starting Motor (V-KW)	12V-3KW	12V-3KW	12V-3KW	12V-3KW	12V-3KW
Charging alternator (V-W)	14V-500W	14V-500W	14V-500W	14V-500W	14V-500W

Alternator Spec

Circulated type	3Phase, 4 wires , Y type connection				
Excitation mode	Brushless Self-Excitation and constant voltage (AVR)				
Power factor cosφ	0.8(lag)				
Pole number	4	4	4	4	4
Insulation	H	H	H	H	H
Overexcitation Protection	IP23	IP23	IP23	IP23	IP23
Voltage Regulator	AVR SX460	AVR SX460	AVR SX460	AVR SX460	AVR SX460
Voltage Regulator NL-FL	± 5%	± 5%	± 5%	± 5%	± 5%

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30Kw - 48Kw



60Kw - 100Kw

Generator Specification

MODEL	IW30WS	IW40WS	IW48WS	IW68WS	IW80WS	IW100WS
Frequency	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz
Rated Power KW	30kw	40kw	48kw	68kw	80kw	100kw
Max power KW	33kw	44kw	53kw	75kw	88kw	110kw
Rated voltage (V)	230/400	230/400	230/400	230/400	230/400	230/400
Rated current A	54.2	72.2	86.6	123	144.4	180.5
Rated speed r/min	1500	1500	1500	1500	1500	1500
Starting Mode	12V	12V	12V	24V	24V	24V
Fuel tank capacity (Liter)	80	80	120	200	200	200
Operational time on single tank fuel(hrs)	9.2	7	9.8	12.1	9.9	8.2
Noise level(dB(A)/ 7m)	67	67	67	67	67	70
Dimension L.W.H.(mm)	2280*950*1480	2500*1050*1500	2500*1050*1500	3000*1050*1650	3000*1050*1650	3250*1050*1800
Net weight (kg)	1050kgs	1280kgs	1300kgs	1455kgs	1850kgs	2120kgs

Engine Specification

Engine Model	W3105ZD	W4108ZD	W4108ZD	W4110ZLD	W6105ZD	W6105ZLD
Engine manufacturer	IWATA	IWATA	IWATA	IWATA	IWATA	IWATA
Bore*Stroke (mm)	105*120	108*120	108*120	110*125	105*125	105*125
Displacement (L)	3.117	4.58	4.58	4.58	6.49	6.49
12hrs Power (kw)	36	62	62	86	92	120
Fuel Cons. at Full Load L/h	8.7L/h	11.5L/h	12.3L/h	16.5L/h	20.2L/h	24.3L/h
Engine Type	Water cooled , 4-stroke, Direct injection, Turbo charged , Intercooled					
Cylinder No.	3	4	4	4	6	6
Compression Ratio	17:1	17:1	17:1	17:1	16.2:1	16.2:1
Starting Motor (V-KW)	12V-3KW	12V-3KW	12V-3KW	24V-3KW	24V-4KW	24V-4KW
Charging alternator (V-W)	14V-500W	14V-500W	14V-500W	28V-500W	28V-500W	28V-500W

Alternator Spec

Circulated type	3Phase, 4 wires , Y type connection					
Excitation mode	Brushless Self-Excitation and constant voltage (AVR)					
Power factor cosφ	0.8(lag)					
Pole number	4	4	4	4	4	4
Insulation	H	H	H	H	H	H
Overexcitation Protection	IP23	IP23	IP23	IP23	IP23	IP23
Voltage Regulator	AVR SX460	AVR SX460	AVR SX460	AVR SX460	AVR SX460	AVR SX440
Voltage Regulator NL-FL	± 5%	± 5%	± 5%	± 5%	± 5%	± 5%

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THE TRUE VALUE OF YOUR INVESTMENT

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120Kw - 300Kw

Generator Specification

MODEL	IW120WS	IW160WS	IW200WS	IW250WS	IW300WS
Frequency	50Hz	50Hz	50Hz	50Hz	50Hz
Rated Power KW	120kw	160kw	200kw	250kw	300kw
Max power KW	132kw	176kw	220kw	275kw	330kw
Rated voltage (V)	230/400	230/400	230/400	230/400	230/400
Rated current A	216.6	288.8	361.0	451.3	541.5
Rated speed r/min	1500	1500	1500	1500	1500
Starting Mode	24V	24V	24V	24V	24V
Fuel tank capacity (Liter)	250	400	400	700	700
Operational time on single tank fuel(hrs)	8.3	9.3	7.7	11.1	10.1
Noise level(dB(A)/ 7m)	72	75	75	75	80
Dimension L.W.H.(mm)	3250*1050*1800	3800*1350*2100	3800*1350*2100	4000*1350*1900	4200*1400*2100
Net weight (kg)	2350kgs	2750kgs	2950kgs	3150kgs	3450kgs

Engine Specification

Engine Model	W6108ZLD	W6TD	W6TAD	W6S9LD	W6S9L-DA
Engine manufacturer	IWATA	IWATA	IWATA	IWATA	IWATA
Bore*Stroke (mm)	108*125	126*130	126*130	126*155	126*155
Displacement (L)	6.87	9.72	9.72	11.59	11.59
12hrs Power (kw)	138	175	219	290	320
Fuel Cons. at Full Load L/h	30.1L/h	43L/h	52L/h	63L/h	69L/h
Engine Type	Water cooled , 4-stroke, Direct injection, Turbo charged, Intercooler				
Cylinder No.	6	6	6	6	6
Compression Ratio	16.5:1	16.5:1	16.5:1	17:1	17:1
Starting Motor (V-KW)	24V-4KW	24V-5KW	24V-5KW	24V-5KW	24V-5KW
Charging alternator (V-W)	28V-500W	28V-500W	28V-500W	28V-500W	28V-500W

Alternator Spec

Circulated type	3Phase, 4 wires , Y type connection				
Excitation mode	Brushless Self-Excitation and constant voltage (AVR)				
Power factor cosφ	0.8(lag)				
Pole number	4	4	4	4	4
Insulation	H	H	H	H	H
Overexcitation Protection	IP23	IP23	IP23	IP23	IP23
Voltage Regulator	AVR SX460	AVR SX460	AVR SX460	AVR SX460	AVR SX460
Voltage Regulator NL-FL	± 5%	± 5%	± 5%	± 5%	± 5%

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360Kw - 800Kw

Generator Specification

MODEL	IW360WS	IW400WS	IW520WS	IW600WS	IW720WS	IW800WS
Frequency	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz
Rated Power KW	360kw	400kw	520kw	600kw	720kw	800kw
Max power KW	400kw	440kw	560kw	660kw	800kw	880kw
Rated voltage (V)	230/400	230/400	230/400	230/400	230/400	230/400
Rated current A	649.8	722.0	938.6	1083.0	1299.6	1444.0
Rated speed r/min	1500	1500	1500	1500	1500	1500
Starting Mode	24V	24V	24V	24V	24V	24V
Fuel tank capacity (Liter)	1000	1000	1200	1200	1200	1200
Operational time on single tank fuel(hrs)	12.5	11.4	10.4	9.1	7.5	6.9
Noise level(dB(A)/ 7m)	85	85	85	85	85	85
Dimension L.W.H.(mm)	4800*1650*2400	4800*1900*2400	5800*2100*2400	5800*2100*2400	5800*2100*2400	5800*2100*2400
Net weight (kg)	4150kgs	5850kgs	6150kgs	6850kgs	7150kgs	7450kgs

Engine Specification

Engine Model	W6S9LF-DA	W164TAD43	W287TAD58	W305TAD68	W327TAD78	W327TAD88
Engine manufacturer	IWATA	IWATA	IWATA	IWATA	IWATA	IWATA
Bore*Stroke (mm)	126*155	138*150	138*160	140*165	145*165	145*165
Displacement (L)	11.6	26.9	28.7	30.5	32.7	32.7
12hrs Power (kw)	410	432	588	682	780	882
Fuel Cons. at Full Load L/h	80L/h	88L/h	115L/h	132L/h	160L/h	175L/h
Engine Type	Water cooled , 4-stroke, Direct injection, Turbo charged, Intercooler					
Cylinder No.	6	12	12	12	12	12
Compression Ratio	17:1	14.7:1	15.1:1	15:1	16:1	14.5:1
Starting Motor (V-KW)	24V-5KW	24V-5KW	24V-5KW	24V-5KW	24V-5KW	24V-5KW
Charging alternator (V-W)	28V-500W	28V-500W	28V-500W	28V-500W	28V-500W	28V-500W

Alternator Spec

Circulated type	3Phase, 4 wires , Y type connection					
Excitation mode	Brushless Self-Excitation and constant voltage (AVR)					
Power factor cosφ	0.8(lag)					
Pole number	4	4	4	4	4	4
Insulation	H	H	H	H	H	H
Overexcitation Protection	IP23	IP23	IP23	IP23	IP23	IP23
Voltage Regulator	AVR SX440	AVR SX440	AVR SX440	AVR MX34	AVR MX34	AVR MX34
Voltage Regulator NL-FL	± 5%	± 5%	± 5%	± 5%	± 5%	± 5%