



**gas Generator Sets
(Toyota, Isuzu, Cummins Engines & Leroy Somer Alternators, 400/230V, 50Hz, 3P4W)**

	Prime(kwe)	5	12	14	16	20	30	36	
Item	Model	MY5B	MT12B	MI14B	MI16B	MC20B	MC30B	MC36B	
Spec.	prime power	kVA/kWe	6/5.0	15/12.0	18/14	20/16	25/20	38/30	45/36
	COP Power	kVA/kWe	5/4.0	13/10.0	14/11	15/12	20/16	31/25	38/30
	frequency	Hz	50	50	50	50	50	50	50
	rated voltage	V	400	400	400	400	400	400	400
	rated current (PRP/COP)	A	9.0/7.2	21.7/18.0	25.3/19.8	28.9/21.7	36.1/28.9	54.1/45.1	65.0/54.1
	power factor	COSΦ	0.8-1.0	0.8-1.0	0.8-1.0	0.8-1.0	0.8-1.0	0.8-1.0	0.8-1.0
Engine	brand	—	Secure Supplies						
	model	—	M-Y380 (N/A)	M-Toyota 4Y (N/A)	M-Isuzu 4JB1 (N/A)	M-Isuzu 4JB1T (Turbo with intercooler)	M-Cummins 4B (N/A)	M-Cummins 6B (N/A)	M-Cummins 4BTAA (Turbo with intercooler)
	displacement	L	1.357	2.237	2.771	2.771	3.9	5.9	3.9
	speed	RPM	1,500	1,500	1,500	1,500	1,500	1,500	1,500
	compression ratio	—	10.5:1	10.5:1	12:1	10.5:1	12:1	12:1	10.5:1
	bore*stroke	mm*mm	80*90	91*86	93*102	93*102	102*120	102*120	102*120
	starting method	—	electric start	electric start	electric start	electric start	electric start	electric start	electric start
	cooling method	—	water cooled	water cooled	water cooled	water cooled	water cooled	water cooled	water cooled
	oil capacity	L	3.5	4.2	5	5	9.5	14.2	9.5
	oil cooler	—	with	with	with	with	with	with	with
	mixer	—	MPS-25	MPS-36	MPS-36	MPS-36	MPS-56	MPS-56	MPS-56
	ignition system	—	AFS	AFS	AFS	AFS	AFS	AFS	AFS
speed governor	—	Woodward	Woodward	Woodward	Woodward	Woodward	Woodward	Woodward	
Gas Train	biogas filter	—	KromSchroeder, Germany						
	Solenoid Valva	—	Econex /12V	Econex /12V	KromSchroeder,Germany, 24V				
	zero-pres. regulator	—	Maxitrol, USA	Maxitrol, USA	KromSchroeder, Germany				
Alternator	brand	—	Leroy Somer	Leroy Somer	Leroy Somer	Leroy Somer	Leroy Somer	Leroy Somer	Leroy Somer
	model	—	LSA 40 VS0	LSA 40 S3	LSA 40 S4	LSA 40 L7	LSA 42.3 VS1	LSA 42.3 S5	LSA 42.3 M7
	phase	—	3 phases, 4 wires	3 phases, 4 wires	3 phases, 4 wires	3 phases, 4 wires	3 phases, 4 wires	3 phases, 4 wires	3 phases, 4 wires
	connecting method	—	SAE standard	SAE standard	SAE standard	SAE standard	SAE standard	SAE standard	SAE standard
	way of excitation	—	brushless, self-excitation	brushless, self-excitation	brushless, self-excitation	brushless, self-excitation	brushless, self-excitation	brushless, self-excitation	brushless, self-excitation
	insulation grade	—	H level	H level	H level	H level	H level	H level	H level
Generator Set	control cabinet	—	9902	9902	9902	9902	9902	9902	9902
	controller type	—	DeepSea DSE7320	DeepSea DSE7320	DeepSea DSE7320	DeepSea DSE7320	DeepSea DSE7320	DeepSea DSE7320	DeepSea DSE7320
	display	—	LCD	LCD	LCD	LCD	LCD	LCD	LCD
	fuel	—	biogas	biogas	biogas	biogas	biogas	biogas	biogas
	gas inlet pressure	kPa	2-10 KPa	2-10 Kpa	2-10 KPa	2-10 Kpa	2-10 Kpa	2-10 Kpa	2-10 Kpa

Generator Set	dimension (open type)	mm*mm*mm	—	1400*710*1020	1,600*650*900	1,600*650*900	1,850*900*1150	2250*1000*1300	1,850*900*1150
	net weight (open type)	kg	400	480	600	650	800	900	900
	protection level	—	IP23	IP23	IP23	IP23	IP23	IP23	IP23
	warranty period	hrs.	2000	2000	2000	2000	2000	2000	2000
	biogas consumption @ PRP	m3/kW.h	0.65	0.58	0.57	0.52	0.54	0.53	0.5
	Genset Electrical Efficiency	%	25.5	28.6	29.2	32.3	31	31.60	33.50
	Genset Thermal Efficiency	%	54.8	51.6	51.6	49	49.2	49.00	48.70
	Genset Total Efficiency	%	80.3	80.2	80.8	81.3	81.2	80.60	82.20
	FOB Price / Open Type Genset	US\$	\$8,320.00	\$8,700.00	\$9,278.00	\$9,578.00	\$12,945.00	\$15,735.00	\$15,235.00
	with heat recovery system (heat recovery from jacket water and exhaust gas)	add	\$1,980.00	\$3,550.00	\$3,950.00	\$3,904.00	\$4,879.00	\$4,936.00	\$5,936.00
	with soundproof enclosure(67dB(A)@7m)	add	\$1,850.00	\$2,450.00	\$2,550.00	\$2,550.00	\$2,817.00	\$2,396.00	\$2,817.00
	Grid Synch.Control Cabinet (with DSE controller 8620)	add	\$4,791.00	\$4,822.00	\$4,878.00	\$5,828.00	\$5,850.00	\$6,850.00	\$6,850.00
	Remote Radiator for CHP	add	\$1,280.00	\$1,850.00	\$1,850.00	\$1,850.00	\$1,550.00	\$1,850.00	\$1,986.00
	FOB Price (Silent CHP with Grid)		\$18,221.00	\$21,372.00	\$22,506.00	\$23,710.00	\$28,041.00	\$31,767.00	\$32,824.00

Notes:1.The above price is based on 0.8PF, 60Hz, 3P4W, 480V/277V, other voltage grade or single-phase alternator is available on request.

2. The above price is based on open type.

3. Discount is available according to gensets' model and quantity. 3% off for a 20ft container and 5% for a 40ft container.

4. Price of other brand of alternator (Stamford, Marathon,or etc) or controller (ComAp) is available on request.

5. Additional price for parallel control system and maintenance-free storage battery is available on request.

6. Validity of the quotation: will be advised on your purchase order request to danieldonatelli1@gmail.com

7. Explanation to the MODEL: -(1) The Model #: the 1st M: MiracleGen, the 2nd M: MAN, Y: Y Serial Gas Engine, C: Cummins Gas Engine (2) COP: Continuous Power Rating (24-7-365) (3) N/A: Naturally Aspirated

