



### Configuration and Quotation on Natural Gas Generator Sets (Cummins Engine & Marathon Alternator, 400/230V, 50Hz, 3P4W)

		Standby(kVA)	55	63	83	104	118
Item	Model		MC55N	MC63N	MC83N	MC104N	MC118N
Spec.	standby power	kVA/kW	55/44	63/50	83/66	104/83	118/94
	prime power	kVA/kW	50/40	56/45	75/60	94/75	106/85
	Frequency	Hz	50	50	50	50	50
	rated voltage	V	400V	400V	400V	400V	400V
	rated current	A	72.2	81.2	108.3	135.3	153.4
	power factor	COSΦ	0.8	0.8	0.8	0.8	0.8
Engine	brand	—	Cummins brand-new gas engine				
	model	—	M-4BTA	M-4BTAA	M-6BTA	M-6BTAA	M-6BTAA
	displacement	L	3.9	3.9	5.9	5.9	5.9
	speed	RPM	1500	1500	1500	1500	1500
	compression ratio	—	10:1	10:1	10:1	10:1	10:1
	bore*stroke	mm*mm	102*120	102*120	102*120	102*120	102*120
	starting method	—	electric start	electric start	electric start	electric start	electric start
	cooling method	—	water cooled	water cooled	water cooled	water cooled	water cooled
	oil capacity	L	9.5	9.5	14.2	14.2	14.2
	oil cooler	—	with	with	with	with	with

	mixer	—	IMPCO, USA	IMPCO, USA	IMPCO, USA	IMPCO, USA	IMPCO, USA
	ignition system	—	made in Canada	made in Canada	made in Canada	made in Canada	made in Canada
	speed governor	—	WOODWARD	WOODWARD	WOODWARD	WOODWARD	WOODWARD
Alternator	brand	—	Marathon	Marathon	Marathon	Marathon	Marathon
	model	—	MP-40-4	MP-48-4	MP-64-4	MP-75-4	MP-90-4
	phase	—	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
	way of 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
Generator Set	controller cabinet	—	9902	9902	9902	9902	9902
	controller type	—	SmartGen Digital Controller	SmartGen Digital Controller	SmartGen Digital Controller	SmartGen Digital Controller	SmartGen Digital Controller
	display	—	LCD	LCD	LCD	LCD	LCD
	fuel	—	PNG	PNG	PNG	PNG	PNG
	gas inlet pressure	kPa	1-5.5kPa	1-5.5kPa	1-5.5kPa	1-5.5kPa	1-5.5kPa
	dimension (open type)	mm*mm*mm	1950*1000*1450	1950*1000*1450	2280*1050*1500	2280*1050*1500	2280*1050*1500
	net weight (open type)	kg	850	850	1000	1000	1000
	protection level	—	IP23	IP23	IP23	IP23	IP23
	warranty period	hrs.	1000	1000	1000	1000	1000
	NG consumption @full load	m <sup>3</sup> /kW.h	0.3	0.3	0.3	0.3	0.3

6. Validity of the quotation: to Dec. 1, 2011.

