

ENI 65 Low BTU

Continuous Duty Synchronous Generator



Production Specifications

Model Number: ENI-0065A-RWSOS

Net Electrical Output		kW	65
Net Electrical Efficiency		%	28
Pkg Efficiency w/ Thermal Heat recovery		%	86.5
Heat Rate (Rated, LHV)		Btu/kWh (kJ/kWh)	12,185 (12,856)
Engine/Generator Type			Continuous Duty Synchronous
Shaft BHP	@ ISO	hp (kW)	92 (68)
Operating Speed		rpm	1800
Output Voltage		Vac	277 / 480 3 Phase
Emissions	NOx	g/bhp-hr	2.06
Standard	CO	g/bhp-hr	1.34
Sound Level		dB(A)	68 @ 7 meters (std)
Sound Level w/low sound option		dB(A)	60 @ 7 meters
Operating Capability			Blackstart capable in either isolated or grid parallel
Power Quality	THD		Meets IEEE 519
	Load Unbalance	%	10% (max)
	Overload	%	10% overload allowed 30x/yr w/ 30 min (max) ea
	Voltage Regulation Adjust	%	+/-0.5
	DC Current Injection	%	<0.5
Fuel Supply	Type		Waste Gas
	Fuel(LHV)	MMBtu/hr (GJ/hr)	0.792 (0.836)
		cu ft/hr (cu m/hr)	1,584 (44.8)
	Supply Pressure	psig (bar)	2.00 (0.136)
	Fuel Standard (LHV)	Btu/cu ft (kJcu m)	500 (22,356)
Enclosure	Length	in (mm)	120 (3,048)
	Width	in (mm)	48 (1,220)
	Height	in (mm)	89 (2,248)
			Completely weatherproof All units fully lockable
Heat Recovery (CHP)			
Jacket Water Flow		gpm (L/m)	65 (246)
Jacket Water Temp. (out)		deg F (deg C)	185 (85)
Jacket Water Temp. (in)		deg F (deg C)	170 (77)
Total Heat Recovery		MMBtu/hr (kW)	0.463 (135)
Warranty			18 months from delivery or 1 year from initial start up whichever comes first. Extended warranty option available.
Standards		UL, CE Expected	

Notes: These specifications represent the design data as of the publication date listed in the lower right hand corner and may be changed without notice. Please contact I Power Energy Systems LLC for the most current specifications.

1. All data based on ISO standard conditions of 29.54 in Hg barometric pressure, 77 deg F ambient and induction air temperatures, 30% rel. humidity.
2. Dimensions and weights do not include optional equipment.
3. The values in this specification subject to a tolerance of +/- 5%
4. Efficiency and performance values represent the base unit operating at 100% heat and electrical power. Data is taken at the connection points of the unit.
5. CHP performance with water

Issue Date: 9-16-2007

Waste Gas Specification

Fuel LHV Fuel Standard LHV	0.792 mmBTU/hr 500 BTU/cu ft
Sulfur Compounds Siloxanes	0.1% (1000 ppm) 25 ug/Liter
No Liquid Water Oil Droplet Solid Particle Liquid Hydrogen	100% Re. Hum. < 0.3 micron < 5 micron 2% by volume
Fuel Temperature	-20 deg F to 140 deg F -29 deg C to 60 deg C