

Technology Scaled by Country

Small

Water Production & Purification

Price Per 1MGD \$3,800,000.00

Purchase with a Water Purchase Agreement

Price Per 1MLD \$1,005,291.00

H₂O | Hydrodynamic Cavitation | Potable Drinking Water WPA: \$0.0025 ppg

Mobile & Fixed Unit: Product: THD XGPD Reactor Module "Lease" WPA

- ✓ Under a Million Gallons per day System
 - Minimum 1 million gallons per day System
 - 3,785,412 Liters per day
 - Containerized

1 Liter = .064 Gallon
1Gallon = 3.785 Liters

H₂O | AWT | Atmospheric Water Tower

- ✓ Fixed Unit: Product: AWT G1 Tower Module "Lease" WPA \$3,800,000.00

Hydrogen & Oxygen Production

H₂O | Hydrogen on Demand: Product:

- ✓ (1) LN24 H2 Reactor Module \$ 3,800,000.00
- ✓ Cryogenic Equipment \$ 350,000.00
- ✓ Install \$ 1,250,000.00

Electric Power Generation

Mechanical | Helix Wind Turbine

- ✓ Fixed Unit: Product: THXG E1 1MW = 4MIG \$2,333,000.00

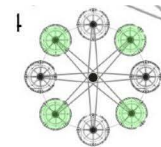
Mechanical | ICE+MIG | Power Generation

Price Per MW \$1,800,000.00

NetZero Emissions | Nano Filtration | Diesel Scrubbers

Per Container \$4,000,000.00

- Micro Induction Generator | 250kw
- ✓ Mobile Unit: Product: TMIG E4 1MW GenSet Module
- ✓ Mobile Unit: Product: TMIG E8 2MW GenSet Module
- ✓ Mobile Unit: Product: TMIG E32 8MW GenSet Module
 - Containerized



Side

Front

Top

Prime Power GenSet

49kw Engine

32 Generators

PowerTech™ PWL
4045HFC04 Diesel Engine

Industrial Engine Specifications

JOHN DEERE

WHARTON Technologies		DIESEL-IND-0045-0000-0000-0000	(DO NOT SCALE DRAWING)	REVISION 01
DRAWN: JH		8MW MICRO_GRID MODULE		
CHECKED: JH		ICE49kw-MIG ²⁵		
APPROVED: JH		J.Wharton S.Wharton		A3
DATE: 11/11/2020		SCALE: 1:1		SHEET 1 OF 1

Medium

Water Production & Purification

Price Per 1MGD \$3,500,000.00

Purchase with a Water Purchase Agreement

H₂O | Hydrodynamic Cavitation | Potable Drinking Water WPA: \$0.0025 ppg

Mobile Unit: Product | THD 1MGD Reactor Module

Fixed Units: Product | THD 10MGD to 50MGD

- ✓ Above a Million Gallons per day System
 - Starting at 1 million gallons per day
 - Containerized

H₂O | AWT | Atmospheric Water Tower

- ✓ Fixed Unit: Product: AWT G1 Tower Module \$3,500,000.00
- ✓ Modular Water Treatment | Based on Scale "Lease" WPA

Hydrogen & Oxygen | Ammonia Production

H₂O | Hydrogen on Demand: Product:

- ✓ (1) LN40 H2 Reactor Module \$16,000,000.00
- ✓ (1) 1MW Fuel Cell \$ 2,800,000.00
- ✓ (1) Nitrogen Injection \$ 970,000.00
- ✓ Cryogenic Equipment \$ 350,000.00
- ✓ Install \$ 1,250,000.00

Electric Power Generation

Mechanical | Helix Wind Turbine

- ✓ Fixed Unit: Product: THXG E1 1MW = 4MIG \$2,333,000.00

Mechanical | ICE+MIG | Electrification 250kw Price Per MW \$1,700,000.00

Mechanical | ICE+MIG | Electrification 500kw Price Per MW \$3,400,000.00

NetZero Emissions | Nano Filtration | Diesel Scrubbers Per Container \$4,000,000.00

Micro Grid | 40 Foot Container Sizing & Pricing

MIG50					MIG25				
500					250				
MW Price \$3.4					MW Price \$1.7				
Engine	Module	KW	MW	MM	Engine	Module	KW	MW	MM
1	32	16,000	16	\$54	1	32	8,000	8	\$14
3	96	48,000	48	\$163	3	96	24,000	24	\$41
6	192	96,000	96	\$326	6	192	48,000	48	\$82
9	288	144,000	144	\$490	9	288	72,000	72	\$122
12	384	192,000	192	\$653	12	384	96,000	96	\$163
15	480	240,000	240	\$600	15	480	120,000	120	\$204
18	576	288,000	288	\$979	18	576	144,000	144	\$245
21	672	336,000	336	\$1,142	21	672	168,000	168	\$286
24	768	384,000	384	\$1,306	24	768	192,000	192	\$326
27	864	432,000	432	\$1,469	27	864	216,000	216	\$367

Containers	MW	GW	MW	GW
1		336	168	
2		672	336	
3		1,008	504	
4		1,344	672	
5		1,680	840	
6		2,016	1,008	1,008
7		2,352	1,176	1,176
8		2,688	1,344	1,344
9		3,024	1,512	1,512

Large

Water Production & Purification Price Per 1MGD \$3,300,000.00

Purchase with a Water Purchase Agreement

H₂O | Hydrodynamic Cavitation | Potable Drinking Water WPA: \$0.0025 ppg

Mobile Unit: Product | THD 1MGD Reactor Module

Fixed Units: Product | THD 10MGD to 50MGD

- ✓ Above a Million Gallons per day System
 - Starting at 1 million gallons per day
 - Containerized

H₂O | AWT | Atmospheric Water Tower

- ✓ Fixed Unit: Product: AWT G1 Tower Module “Lease” WPA \$3,300,000.00
- ✓ Modular Water Treatment | Based on Scale

Hydrogen | Oxygen | Fuel Cell

Nitrogen | Ammonia Optional

H₂O | Hydrogen on Demand: Product:

- ✓ (1) LN100 H2 Reactor Module \$ 37,000,000.00
- ✓ (2) 1MW Fuel Cell \$2.8M ea \$ 5,600,000.00
- ✓ (1) Nitrogen Injection (Optional) \$ 1,940,000.00
- ✓ (1)Cryogenic Equipment \$ 350,000.00
- ✓ Install per module \$ 1,250,000.00

Electric Power Generation

Mechanical | ICE+MIG | Electrification 250kw Price Per MW \$1,700,000.00

Mechanical | ICE+MIG | Electrification 500kw Price Per MW \$3,400,000.00

Micro Grid | 40 Foot Container Sizing & Pricing

MIG50					MW Price	MIG25					MW Price
500					\$3.4	250					\$1.7
Engine	Module	KW	MW	MM		Engine	Module	KW	MW	MM	
1	32	16,000	16	\$54		1	32	8,000	8	\$14	
3	96	48,000	48	\$163		3	96	24,000	24	\$41	
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9	288	144,000	144	\$490		9	288	72,000	72	\$122	
12	384	192,000	192	\$653		12	384	96,000	96	\$163	
15	480	240,000	240	\$600		15	480	120,000	120	\$204	
18	576	288,000	288	\$979		18	576	144,000	144	\$245	
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4		1,344	672	
5		1,680	840	
6		2,016	1,008	1,008
7		2,352	1,176	1,176
8		2,688	1,344	1,344
9		3,024	1,512	1,512

168 Megawatt | MicroGrid MIG²⁵

40'-1"

Top View

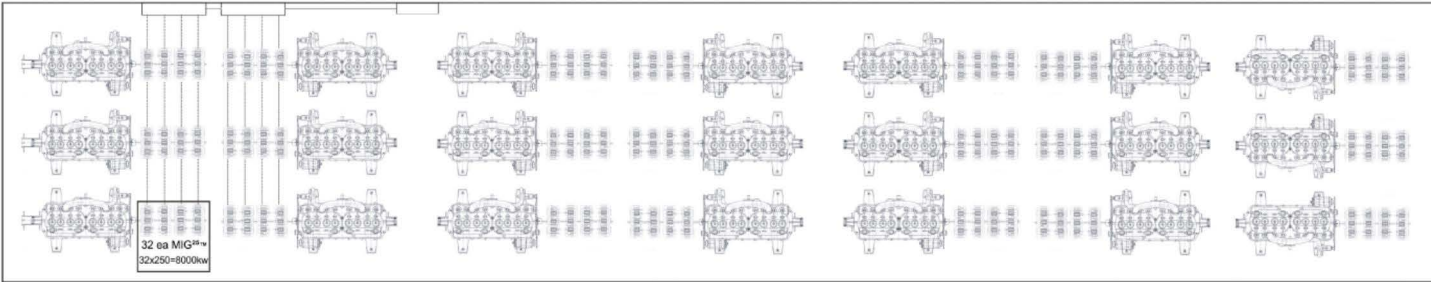
MicroGrid Modules

MIG⁵⁰

MIG²⁵

384 MW	192 MW 45 ft Container
336 MW	168 MW 40 ft Container
168 MW	84 MW 20 ft Container
48 MW	24 MW 10 ft Container

7'-8"

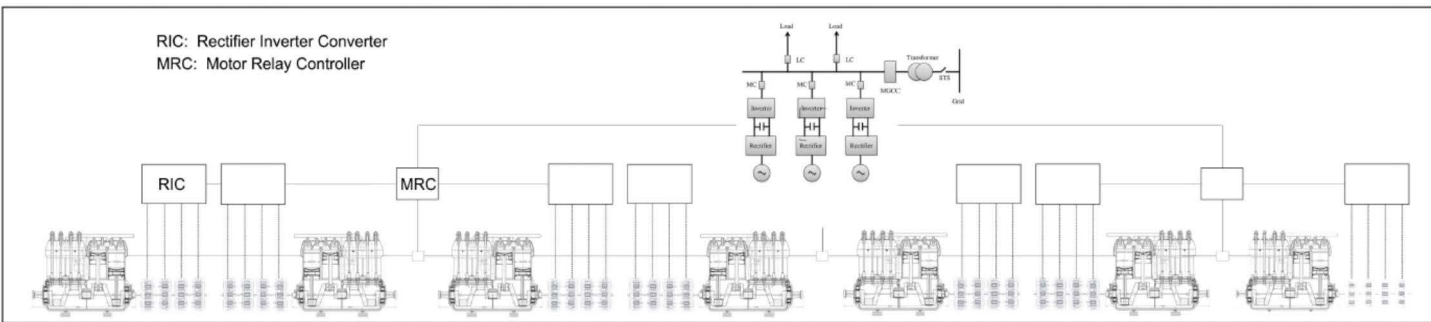


672 MIG²⁵™ | 250vdc Micro Induction Generators

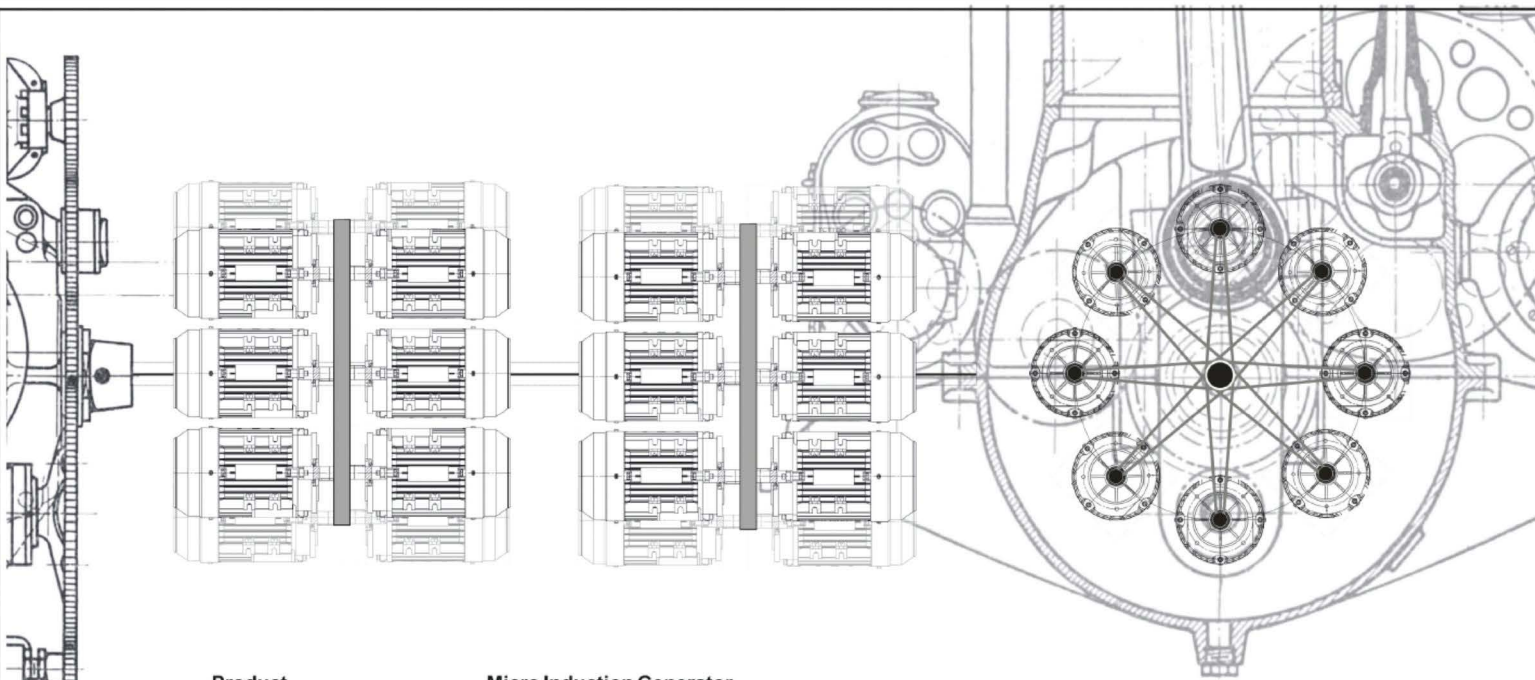
21 - ICE | 49kw Internal Combustion Engines

Side View

8'-8"

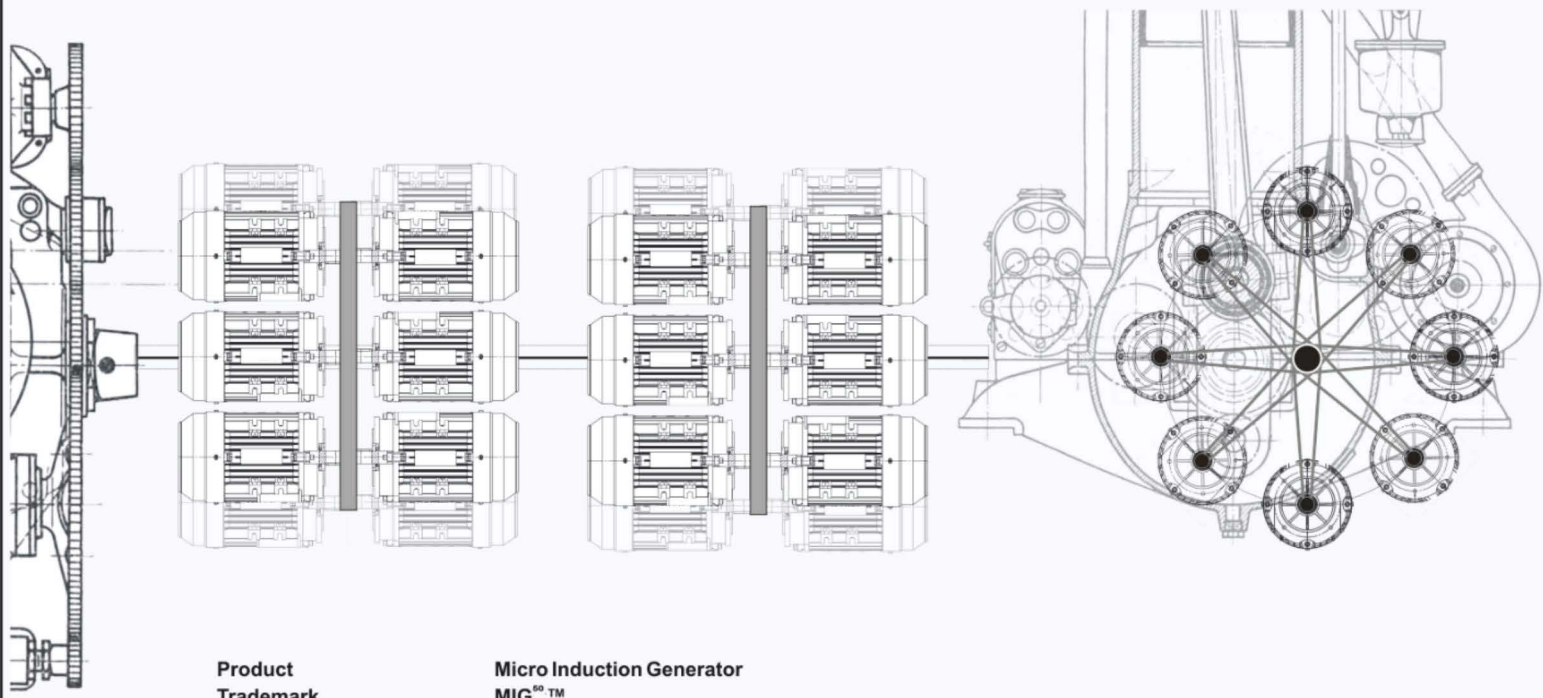


RIC: Rectifier Inverter Converter
MRC: Motor Relay Controller



Product Micro Induction Generator
Trademark MIG²⁵™
Rated Power 250kw
Power DC | Direct Current
Phase 1,2 & 3
Poles 1,2 & 3
Operating Wt: 5 pound | 2.5 kg
Size 152mm L x 152mm W x 152mm H
Speed 6RPM -1000 RPM
Cooling Liquid Jacket

WHARTON Technologies			DEBUR AND BLEAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION	01
				8MW MICRO_GRID MODULE		
				250kw-MIG ²⁵		
DESIGN	NAME	SIGNATURE	DATE	TITLE		
CHWD	JB		01/18/20			
APV/C						
MRC						
CLA						
				MATERIAL	AI	
				WEIGHT	Kg	
				SCALE	1:1	
				SHEET 1 OF 1		
				J. Wharton	S. Wharton	
				A3		



Product Micro Induction Generator
Trademark MIG⁵⁰™
Rated Power 500kw
Power DC | Direct Current
Phase 1,2 & 3
Poles 1,2 & 3
Operating Wt: 5 pound | 2.5 kg
Size 152mm L x 152mm W x 152mm H
Speed 6RPM -1000 RPM
Cooling Liquid Jacket

		BREAK AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION 01
			16 MW MICRO_GRID	
NAME: _____ DATE: _____ DRAWN: J.P. 20140320		MATERIAL: Al	FILE: 500kw-MIG ⁵⁰	
CHECKED: _____ APPLIED: _____ MFG: _____ CL: _____			J. Wharton	S. Wharton
WEIGHT: Kg		SCALE: 1:1	SHEET 1 OF 1	