

Introducing the **ProReducer™**

The Revolution in Energy-conservation technology



Keep the lights on . Keep your bills low

ProReducer™ provides both present and future protection against energy costs whilst extending the lifespan of your capital asset.

ProReducer™ is able to demonstrate and provide proof that its' product is safe, secure, and financially sound.

The ProReducer™ Ensaver operates on mixed loads. This device saves between 15%-35 % of energy on each installed electrical appliance. It connects directly to the client's Distribution Board (DB) with minimal downtime. The Ensaver, can operate on 15A single phase supply, up to 150A 3-phase. It operates by continuously detecting the required load and by optimizing outgoing current.

The ProReducer™ Motosaver device can be applied to a range of 1.5KW to 300KW 3-phase induction motors. This is a powerful device with a built in Soft Starter, optional Variable Speed Device, and a proprietary Detection Manager (DM) and Optimizer. With this DM in place, we can save between 15% and 35% on the motor loss by adjusting the power factor of the motor to attain an efficiency of between 0.95% and 0.99%.

The ProReducer™ Streetlight Manager is a specialized product that achieves a minimum of 10% savings, and has achieved 35% on various occasions depending on the existing efficiency of the lighting design. One notable contract for ProReducer is the installation of the Streetlight Manager along the entire North-South highway system in Malaysia. Installation is presently underway and when completed will cover a distance of over 900KM

Carbon Reducer Industries S/B
Level 20, Menara Standard Chartered
30 Jalan Sultan Ismail
50250 Kuala Lumpur, Malaysia
Telephone: +60321175156
Facsimile: +60321175157

CARBON CREDITS INTERNATIONAL, INC
2300 E. Sahara Avenue, Suite 800
Las Vegas, Nevada USA 89123
Phone/Fax: +1 888 863-3423
email: sales@carbon-reducer.com
www.carbonproreducer.com

Energy Efficiency
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PROREDUCER



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Reach higher with the ProReducer™.

Backed by 15 years of intensive research and development, the ProReducer™ is trusted and used both by government agencies and some of the largest corporations in the world. The ProReducer™ ensures an effective defence against rising utility prices by maintaining and increasing our customers competitive ability.

The ProReducer™ is fundamentally different from common capacitor banks. Our patented load detection system continually monitors electrical load at 380 cycles per second, and ensures that optimal power is supplied at all times. This automatic feedback corrective system reduces waste, ensures kilowatt savings, and saves you money. The ProReducer™ is more than a collection of break-through technologies – it is revolutionary, dedicated to both the environment and improving our customers competitive edge. Join us.



Specifications - ProReducer Ensaver
 Rated Voltage: 200V-260 VAC 50Hz & 390V-460VAC 50Hz
 Insulating Resistance: 50M Ohm (DC500VM)
 Ambient Temperature: 0oC - 55oC
 Storage Temperature: -(10)oC - 70oC+
 Ambient Humidity: 45 - 84% RH
 Over current: 10KV 0.3 / SEC, 150% normal current

Specifications - ProReducer Motosaver
 Rated Voltage: 3 phase, 400/400V 50/60Hz, 360V-484 VAC 50/60Hz
 Insulating Resistance: 50M Ohm (DC500VM)
 Ambient Temperature: 0oC - 50oC
 Storage Temperature: -(20)oC - 65oC+
 Ambient Humidity: < 90% RH



The ProReducer™ is by far the most effective energy-optimization product on the market today.



ProReducer™ products are a unique range of effective, long term energy-saving devices. Energy conservation is optimized, efficiency increased, and costs reduced without compromising safety, quality, or comfort.

- Our Products:**
- Significantly increase the life-expectancy of capital equipment by preventing sudden stops and starts with the associated wear.
 - Greatly reduce waste heat generated, prevent and reduce the need for supplementary cooling systems.
 - Allow clients to actively monitor energy usage in real-time online.
 - Ensure continual and stable voltage, preventing power spikes and lags and creating higher performance.
 - Reduce frequency noise, harmonics, and wave-form distortions.
 - Reduce reactive and apparent power from 30-90%.

Effective.
The ProReducer™ delivers an ROI in excess of 200%, and pays for itself in less than three years. Not only is this a very fast payback time it is also a capital asset with a 'minimum life expectancy' of ten years.

Long term.
CCI products have a significant reliability record. Thus far no major issues have arisen. Instances exist where the ProReducer™ has exceeded its planned 10 year lifespan. It should also be noted that research into ProReducer technology has taken over 18 years.

Proven.
The ProReducer™ is patented technology certified to be effective by some of the most trusted and renowned certification firms in the world: SGS, Bureau Veritas, and the PSB Corporation. Others include ASEAN standards, Jabatan Bekala Elektrik, and Sirim Berhad.

Unique.
The ProReducer™ is the only product of its type with such a high level of power savings. It is used and trusted by some of the world's most established firms. Current clients range from Posco to Fuji-Xerox, Matsushita to Mitsubishi, and various government agencies in Singapore.

Sample Test Report by SGS Corp.*:

SGS Corp. Test Results	Without ProReducer	With ProReducer	Savings	Savings (%)
	Actual Measured Value			
Voltage (V)	231	232.6	+1.5	0.649%
Current (A)	49.97	49.97	+0.0	0.0%
Power Factor (Pf)	0.648	0.706	+0.058	8.951%
Real Power (kW)	3.8	2.89	-0.91	23.95%
Apparent Power (KVA)	5.87	4.09	-1.78	30.32%
Reactive Power (KVAR)	4.47	2.90	-1.57	35.12%
1st Current Harmonic	25.14	17.37	-7.77	30.91%
3rd Current Harmonic	2.65	2.18	-0.47	17.74%
5th Current Harmonic	0.26	0.11	-0.15	57.70%
7th Current Harmonic	0.86	0.53	-0.33	38.37%
9th Current Harmonic	0.61	0.41	-0.20	32.79%
11th Current Harmonic	0.36	0.24	-0.12	33.33%

* Actual Report Available on request: