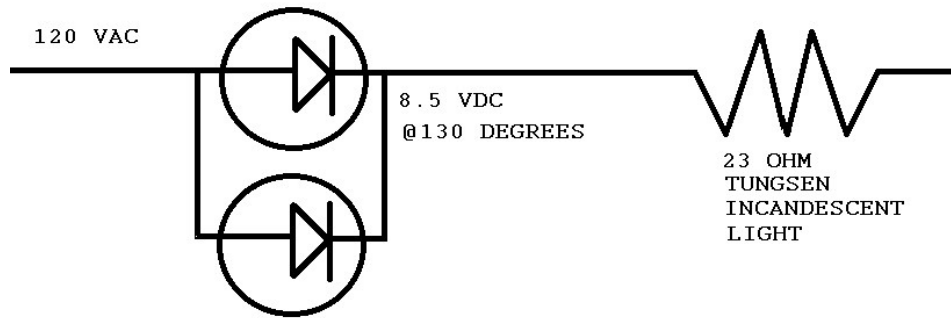


# GENII SPECIFICATION SHEET

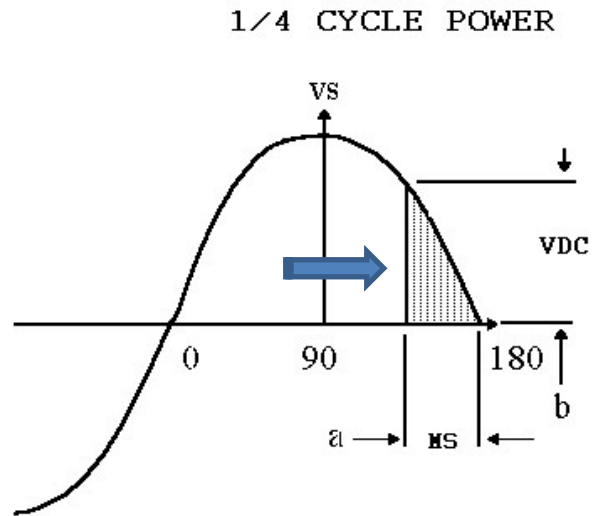
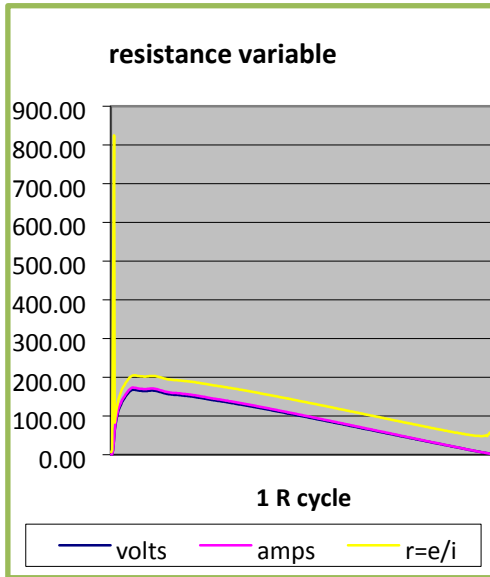


EPS EQUIVALENT CIRCUIT



## Neolight Electronic Power System

1. Electronic Power Source equivalent circuit is diode supplying half cycle power to resistor. Half cycle conduction is controlled past 90deg. Patented **quarter cycle** power method energizes. GENII R-cycle emits light at 60 cycles per second.
2. GENII 23 ohm resistance limits power requirements.
3. 50 AMP EPS energizes @ .35A, 140 Lamp line.
4. 670 Peak Instantaneous watts per microsecond, for a period of 2 microseconds initiate Quantum cycle.
5. Electro dynamic cycle attenuates infrared intensity thus improves energy efficiency.
6. EPS operations aid AC crest factor power quality.
7. Lower carbon emissions.

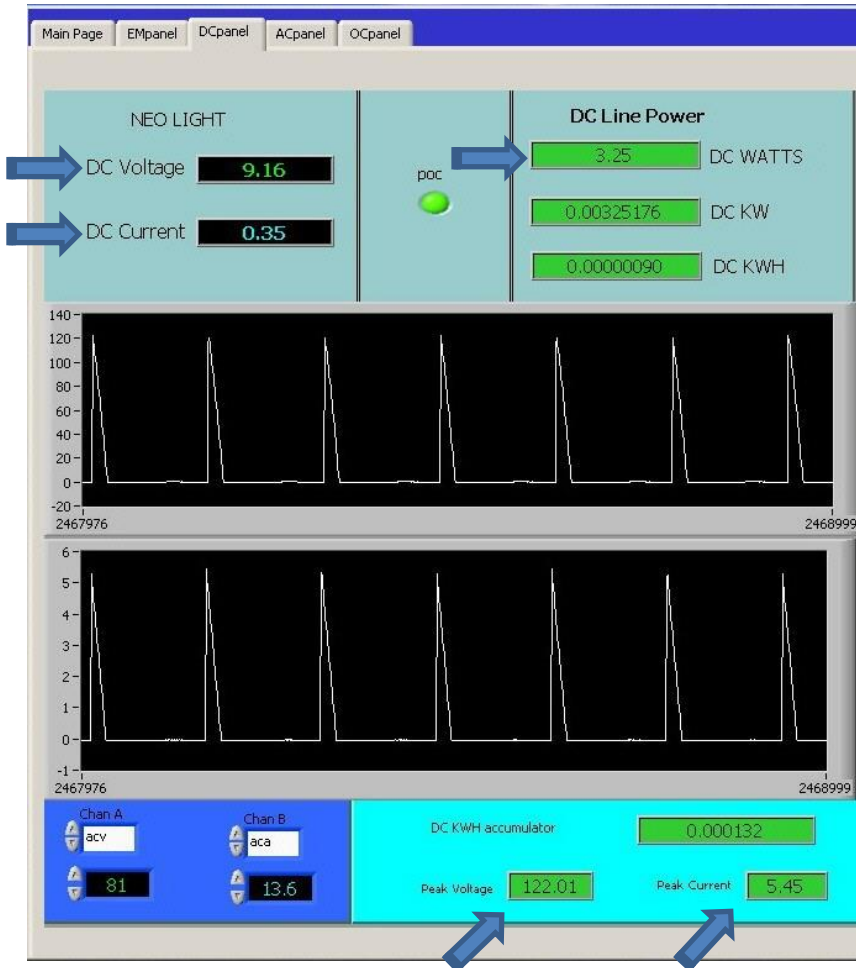


**EPS NOMINAL RATINGS**

- |                                       |                   |
|---------------------------------------|-------------------|
| 1. INPUT VOLTAGE                      | 120VAC 60HZ       |
| 2. EPS MAXIMUM ¼ CYCLE CURRENT RATING | 18-50-100 AMPS DC |
| 3. EPS ¼ CYCLE OUTPUT VOLTAGE         | 8.5 TO 11.5       |
| 4. EPS ¼ CYCLE OUTPUT CURRENT         | .35 TO .5         |
| 5. EPS ¼ CYCLE PEAK CURRENT           | 5.5               |
| 6. EPS ¼ CYCLE PEAK VOLTAGE           | 122               |
| 7. EPS PEAK CURENT DURATION           | 1 MS              |
| 8. EPS WATT P/MS                      | 670               |
| 9. EPS CONDUCTION DELAY ANGLE         | 130 DEGREES       |
| 10. LUMENS                            | 600               |
| 11. LUMENS PER WATT                   | 170               |

**Neolight Watt Hour software**

Specialized measurement instrumentation is required to quantize quarter cycle energy. Neolight watt hour meter time base of 25KS/S meets current standard for utility power measurement. Patented design acquires voltage and current data sets for digital processing. EPS channel Integral watt/ps, WH, KWH, true RMS correction, CDA, and MS pulse duration.



## GENII Tungsten lamp

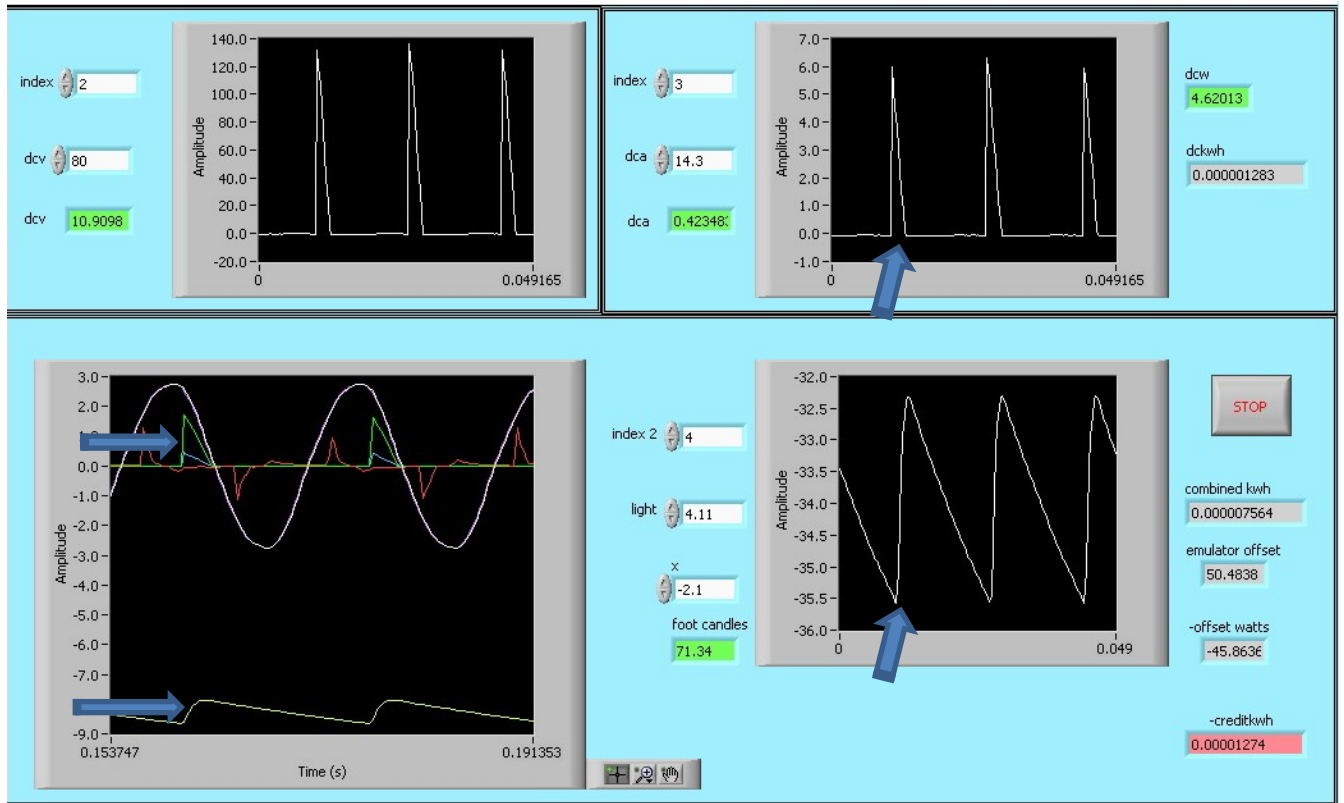
Incandescent light intensity is a function of peak power applied to the filament. GENII is energized with low voltage/high peak power. Reduction of filament resistance by 90% reduces lamp wattage. Light output is equivalent to predecessor incandescent lamps, fluorescent and LED lamps. Neolight cycle sets new lumens per watt standard.

### Features

1. Infrared emissions are attenuated. Energy efficiency is improved.
2. Electronic power system outputs low voltage, high current energy. Inducing R-cycle.
3. Lower source voltage and load resistance absorb 95% less electrical power.
4. Mercury free product. GENII offers efficiency and uniformity to lighting needs.
5. Reliable, low cost design.

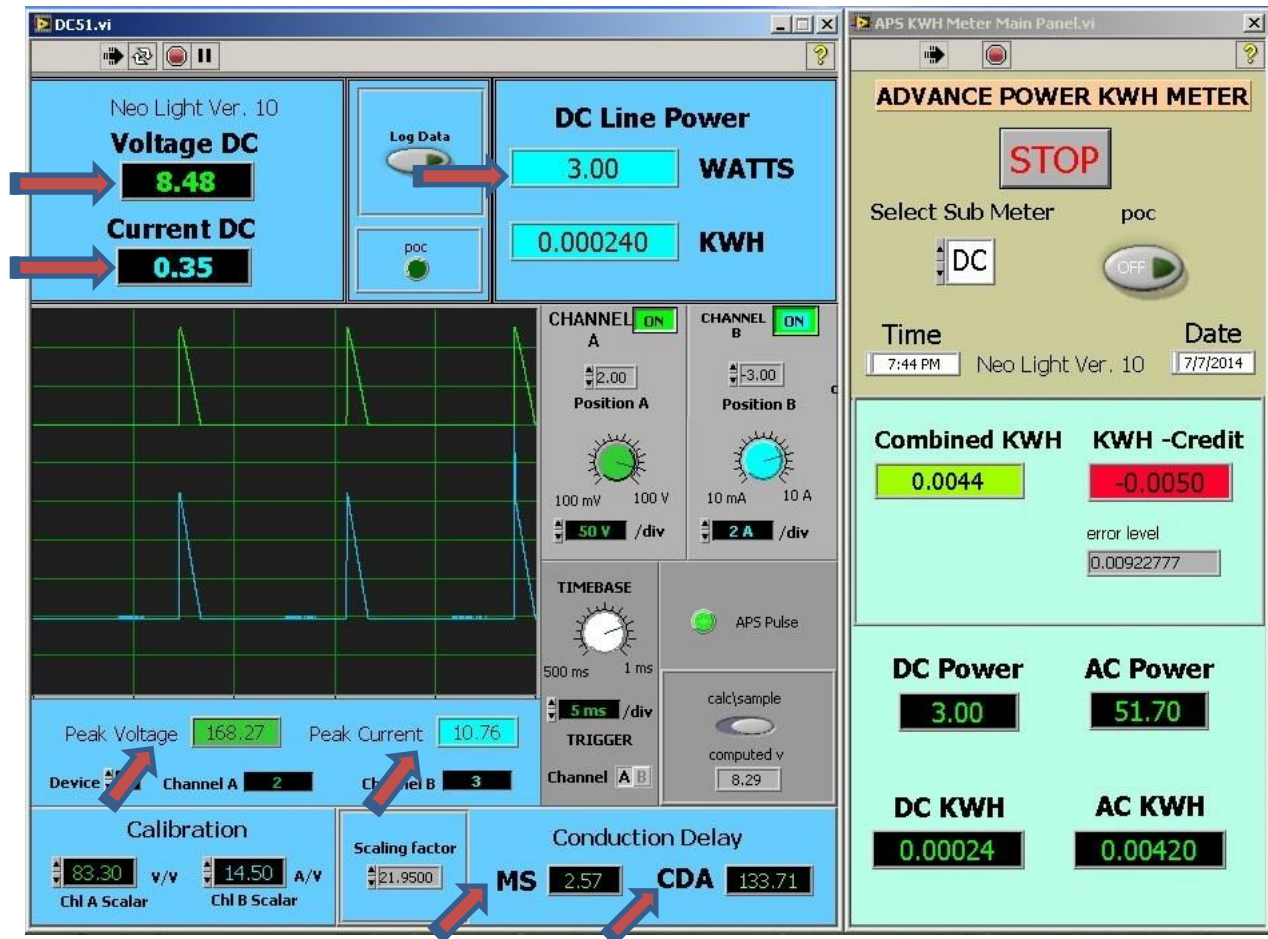
### Rosenberg cycle quantum theory

The period of EPS source and GENII output emission are distinctly different. Although they both initiate at the same time, the periods exhibit 1:8 ratio. R-Cycle quantum process extends light emission period. 60 frames per second of continuous light are produced as illustrated in Omnilight analyzer.



## NEOLIGHT EPS POWER ANALYZER

The software evaluates all power variable as well as the light output of any lamp. This image is of a GENII 2.5 watt lamp and the extended light output duration.



Dual channel design independently measures AC and EPS line, computes line wattage, stores billing registers in nonvolatile memory, and reloads billing registers at boot up. When used with a RMS utility meter, RMS error correcting routine displays watt hour credit.

Software additional features are; Pulse width MS. Conduction delay angle in degrees, log of acquired data on all channel, power on clear, computation of EPS voltage based on pulse width, mean EPS voltages and statistical peak. GENII Net Meter may be viewed or operated over internet.

### Consumer benefits

1. Reduces power rate 50% lower than competing product.
2. One GENII replaces 10w LED, 20w CFL, 25w, 30w, 50w, 60w, 75w, 100w incandescent.
3. Disposable light bulb meets EPA standards, nontoxic green product.
4. Output brightness can be adjusted from 2 watt soft light to 5 watt work area light.
5. Long life, Low cost bulb. Uniformity in replacement bulbs.
6. Smart meter feature helps consumers monitor energy use.

TYPE	lumens	EPS watt	Lumens pw
GENII	133	1	133
40W	266	1.5	177
34W	399	1.6	249
GENII	533	2.2	242
GENII	666	2.5	266
60W	800	2.9	275
GENII	932	3.1	300
75W	1066	3.4	313
100W	1199	3.6	333
GENII	1332	4	333
GENII	1465	4.3	340
GENII	1599	4.6	347
GENII	1732	4.9	353
GENII	1865	5.2	358
CFL	800	20	40
LED	800	10	80

GENII

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