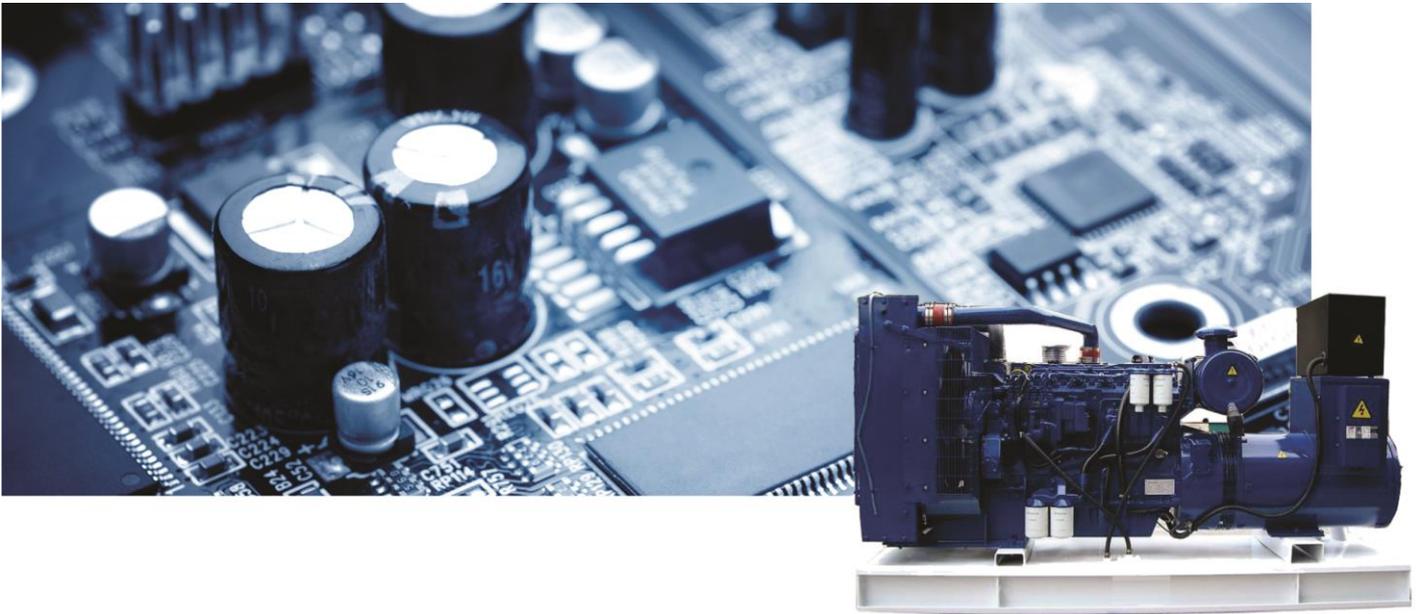


Automatic Voltage Regulator



Khenkikian Electronics LLC.

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About Us

Khenkikian Electronics LLC

Manager Shant Nishan Khenkikian

Manufacturer and Supplier of electronic control systems

Khenkikian Electronics established in Syria at 1969 by Abraham Khenkikian.

Khenkikian Electronics is specialized in design & manufacture of electronic control systems. We make all types of Generator Automatic Voltage Regulator ,Genset Controller & Automatic Mains Failure, Electronic Governor, Other electronics genuine Parts. All of Khenkikian Electronics products are 100% Designed and implemented by Khenkikian skilled engineers in republic of Armenia and the production performs are in Armenia and Syria

Our Manufacturing branches

- Our first branch in Aleppo the industrial capital of Syria
Syria is an Industrial hub in the Middle East

- At September 2012 proudly we announced our second branch in Yerevan the capital of republic of Armenia.

Armenia is one of the developed countries in electronics technology

Our two branches have skilled workers and staff who cares about customer service

Our Principle

Quality, Service, and Innovation is the principle goal of Khenkikian Electronics. It underpins every communication, every relationship and every product that bears the Khenkikian brand. Our customers experience this commitment through constant feedback, continuous improvement and innovative solutions to their problems. As a result, Khenkikian Electronics has had the opportunity to work with global industry leaders, and to develop and offer the most advanced products in the market. Khenkikian Electronics customers understand that our commitment results in rapid and effective solutions are always available

Quality Policy

At Khenkikian Electronics, we fully realise the importance of the power of the quality. Our strict quality-control system earns the confidence of our clients.

our products designed to work in all environments.

Our service

We realise your ideas to Electronics solutions from A to Z by designing,programming and producing,

AVR106

AVR106 is a half-wave phase-restricted thyristor type Automatic Voltage Regulator (AVR) and forms part of the excitation structure for a brush-less generator. In accumulation to regulating the generator voltage Excitation power is derived directly from the generator terminals.



Features

- > Voltage regulation < 1%
- > Feedback voltage sensing
- > Easy mounting and installing
- > Actual specification
- > Real guaranty from the manufacturer company Khenkikian Electronics

Specifications

Sensing Input	160-255 Vac 1 phase 2 wire
Output voltage	Max. 90 Vdc
Output current	Continuous 2.8A.
Output current for 10 sec.	Intermittent 6A for 10 sec.
Voltage Regulation	< +/- 1% (with 4% engine governing
Build Up Voltage	Residual volts at AVR Terminal > 1.5 Vac
Thermal Drift	0.05% per C change in AVR ambient
Environment	Operation Temperature -40 to +70 C Storage Temperature -40 to +85 C Relative Humidity Max. 95%

Installation

Terminals	L1 Line taken from the output of the generator
	X+ (Positive) provides the required DC supply for the exciter winding of the generator.
	N Neutral taken from the output of the generator
	xx- (Neg.) provides the required DC supply for the exciter winding of the generator.

The power supply and the sensing terminals are common and are marked L1 - N and operates on a supply of about 220 vac (50 or 60 Hz) obtained directly from the output of the generator.

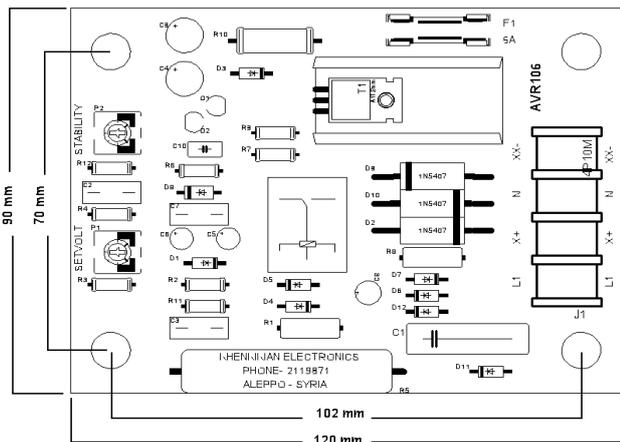
Note: be sure the frequency of the generator is fixed at 50 or 60 HZ (the adjusting of the frequency depends on the engine speed. **The AVR is not responsible for the frequency.**

In order to get optimum results during on load operation, speed variation must not exceed more than +/- 2% of the nominal value.

Adjustment	SET. VOLT To adjust the output voltage of the generator
	STABILITY Adjusts the stability of the generators output voltage to obtain optimum stability

Note: after adjusting the Stability, in some cases, Set volt needs readjustment.

Don't run the engine at over speed or under speed. if necessary, the AVR should be disconnected by removing the AVR fuse, or the lead from terminal L1, until rated speed is approximately set.



Physical Specification

Dimensions	142mm(L) X 106mm(W) X 34mm(H)
Weight	N.W.174 g +/- 2% G.W.250 +/- 2%

AVR108

AVR108 is a half-wave phase-restricted thyristor type Automatic Voltage Regulator (AVR) and forms part of the excitation structure for a brush-less generator. In accumulation to regulating the generator voltage Excitation power is derived directly from the generator terminals.



Features

- > Voltage regulation < 1%
- > Feedback voltage sensing
- > External voltage control 10%
- > Easy mounting and installing
- > Actual specification
- > Real guaranty from the manufacturer company Khenkikian Electronics

Specifications

Sensing Input	160-255 Vac 1 phase 2 wire
Output voltage	Max. 90 Vdc
Output current	Continuous 5A.
Output current for 10 sec.	Intermittent 10A for 10 sec.
Voltage Regulation	< +/- 1% (with 4% engine governing
Build Up Voltage	Residual volts at AVR Terminal > 1.5 Vac
External Volts Adjustment	> +/- 10% with 1K ohms trimmer
Thermal Drift	0.05% per C change in AVR ambient
Environment	Operation Temperature -40 to +70 C Storage Temperature -40 to +85 C Relative Humidity Max. 95%

Installation

Terminals	L1 Line taken from the output of the generator
	X+ (Positive) provides the required DC supply for the exciter winding of the generator.
	N Neutral taken from the output of the generator
	xx- (Neg.) provides the required DC supply for the exciter winding of the generator.

The power supply and the sensing terminals are common and are marked L1 - N and operates on a supply of about 220 vac (50 or 60 Hz) obtained directly from the output of the generator.

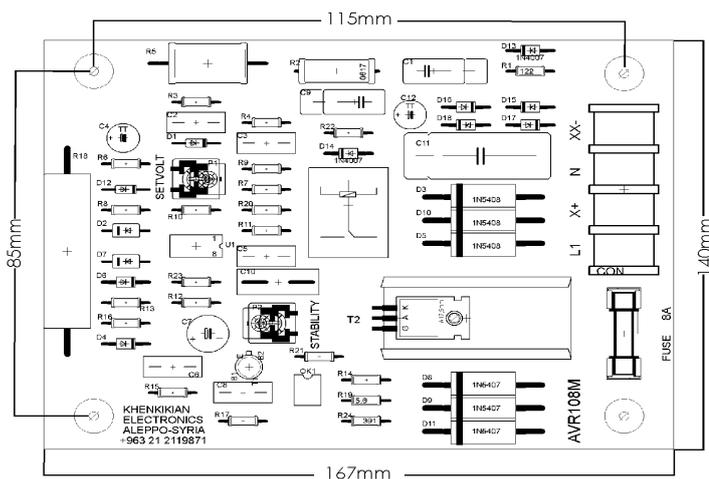
Note: be sure the frequency of the generator is fixed at 50 or 60 HZ (the adjusting of the frequency depends on the engine speed. **The AVR is not responsible for the frequency.**

In order to get optimum results during on load operation, speed variation must not exceed more than +/- 2% of the nominal value.

Adjustment	SET. VOLT To adjust the output voltage of the generator
	STABILITY Adjusts the stability of the generators output voltage to obtain optimum stability

Note: after adjusting the Stability, in some cases, Set volt needs readjustment.

Don't run the engine at over speed or under speed. if necessary, the AVR should be disconnected by removing the AVR fuse, or the lead from terminal L1, until rated speed is approximately set.



Physical Specification

Dimensions	142mm(L) X 106mm(W) X 34mm(H)
Weight	N.W.174 g +/- 2% G.W.250 +/- 2%

AVR110

AVR110 is a half-wave phase-restricted thyristor type Automatic Voltage Regulator (AVR) and forms part of the excitation structure for a brush-less generator. In accumulation to regulating the generator voltage Excitation power is derived directly from the generator terminals.



Features

- > Voltage regulation < 1%
- > Feedback voltage sensing
- > External voltage control 10%
- > Easy mounting and installing
- > Actual specification
- > Real guaranty from the manufacturer company Khenkikian Electronics

Specifications

Sensing Input	160-255 Vac 1 phase 2 wire
Output voltage	Max. 90 Vdc
Output current	Continuous 8A.
Output current for 10 sec.	Intermittent 15A for 10 sec.
Voltage Regulation	< +/- 1% (with 4% engine governing
Build Up Voltage	Residual volts at AVR Terminal > 1.5 Vac
External Volts Adjustment	> +/- 10% with 1K ohms trimmer
Thermal Drift	0.05% per C change in AVR ambient
Environment	Operation Temperature -40 to +70 C Storage Temperature -40 to +85 C Relative Humidity Max. 95%

Installation

Terminals	L1 Line taken from the output of the generator
	X+ (Positive) provides the required DC supply for the exciter winding of the generator.
	N Neutral taken from the output of the generator
	xx- (Neg.) provides the required DC supply for the exciter winding of the generator.

The power supply and the sensing terminals are common and are marked L1 - N and operates on a supply of about 220 vac (50 or 60 Hz) obtained directly from the output of the generator.

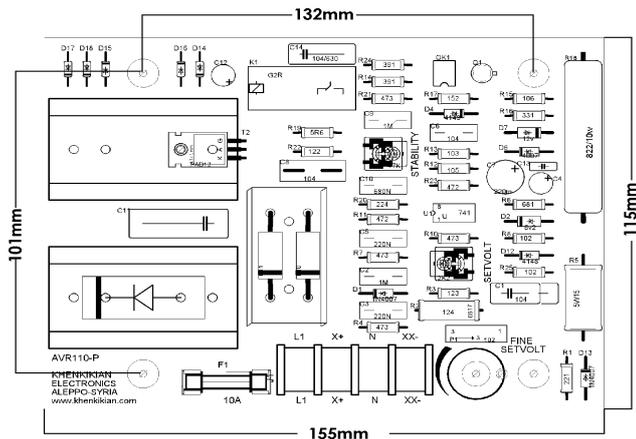
Note: be sure the frequency of the generator is fixed at 50 or 60 HZ (the adjusting of the frequency depends on the engine speed. **The AVR is not responsible for the frequency.**

In order to get optimum results during on load operation, speed variation must not exceed more than +/- 2% of the nominal value.

Adjustment	SET. VOLT To adjust the output voltage of the generator
	STABILITY Adjusts the stability of the generators output voltage to obtain optimum stability

Note: after adjusting the Stability, in some cases, Set volt needs readjustment.

Don't run the engine at over speed or under speed. if necessary, the AVR should be disconnected by removing the AVR fuse, or the lead from terminal L1, until rated speed is approximately set.

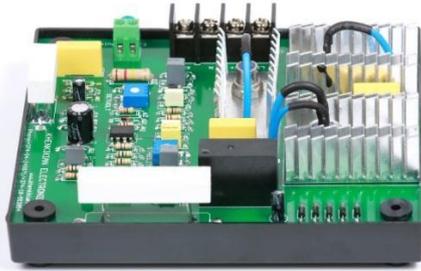


Physical Specification

Dimensions	155mm(L) X 115mm(W) X 35mm(H)
Weight	N.W.212 g +/- 2% G.W.310 +/- 2%

AVR115

AVR115 is a half-wave phase-restricted thyristor type Automatic Voltage Regulator (AVR) and forms part of the excitation structure for a brush-less generator. In accumulation to regulating the generator voltage Excitation power is derived directly from the generator terminals.



Features

- > Voltage regulation < 1%
- > Feedback voltage sensing
- > External voltage control 10%
- > Easy mounting and installing
- > Actual specification
- > Real guaranty from the manufacturer company Khenkikian Electronics

Specifications

Sensing Input	160-255 Vac 1 phase 2 wire
Output voltage	Max. 90 Vdc
Output current	Continuous 12A.
Output current for 10 sec.	Intermittent 20A for 10 sec.
Voltage Regulation	< +/- 1% (with 4% engine governing
Build Up Voltage	Residual volts at AVR Terminal > 1.5 Vac
External Volts Adjustment	> +/- 10% with 1K ohms trimmer
Thermal Drift	0.05% per C change in AVR ambient
Environment	Operation Temperature -40 to +70 C
	Storage Temperature -40 to +85 C
	Relative Humidity Max. 95%

Installation

Terminals	L1 Line taken from the output of the generator
	X+ (Positive) provides the required DC supply for the exciter winding of the generator.
	N Neutral taken from the output of the generator
	xx- (Neg.) provides the required DC supply for the exciter winding of the generator.

The power supply and the sensing terminals are common and are marked L1 - N and operates on a supply of about 220 vac (50 or 60 Hz) obtained directly from the output of the generator.

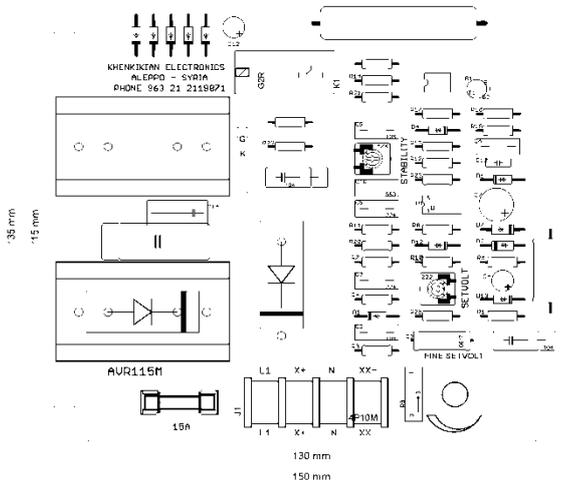
Note: be sure the frequency of the generator is fixed at 50 or 60 HZ (the adjusting of the frequency depends on the engine speed. **The AVR is not responsible for the frequency.**

In order to get optimum results during on load operation, speed variation must not exceed more than +/- 2% of the nominal value.

Adjustment	SET. VOLT To adjust the output voltage of the generator
	STABILITY Adjusts the stability of the generators output voltage to obtain optimum stability

Note: after adjusting the Stability, in some cases, Set volt needs readjustment.

Don't run the engine at over speed or under speed. if necessary, the AVR should be disconnected by removing the AVR fuse, or the lead from terminal L1, until rated speed is approximately set.



Physical Specification

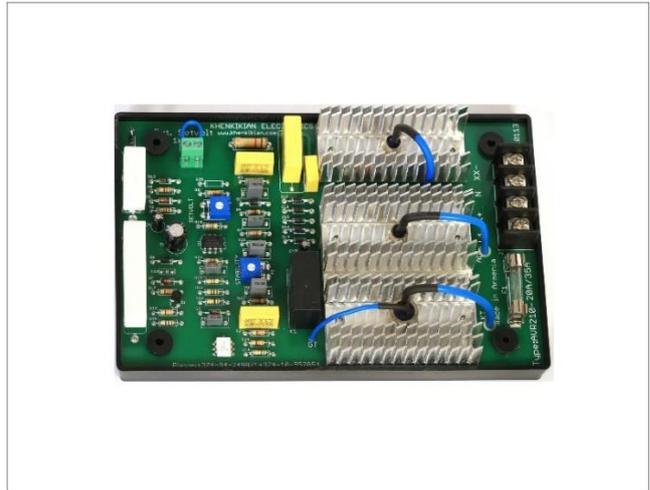
Dimensions	155mm(L) X 140mm(W) X 36mm(H)
Weight	N.W.330 g +/- 2%
	G.W.450 +/- 2%

AVR210-20A

AVR210-20A is a half-wave phase-restricted thyristor type Automatic Voltage Regulator (AVR) and forms part of the excitation structure for a brush-less generator. In accumulation to regulating the generator voltage Excitation power is derived directly from the generator terminals.

Features

- > Voltage regulation < 1%
- > Feedback voltage sensing
- > External voltage control 10%
- > Easy mounting and installing
- > Actual specification
- > Real guaranty from the manufacturer company Khenkikian Electronics



Specifications

Sensing Input	160-255 Vac 1 phase 2 wire
Output voltage	Max. 90 Vdc
Output current	Continuous 15A.
Output current for 10 sec.	Intermittent 30A for 10 sec.
Voltage Regulation	< +/- 1% (with 4% engine governing
Build Up Voltage	Residual volts at AVR Terminal > 1.5 Vac
External Volts Adjustment	> +/- 10% with 1K ohms trimmer
Thermal Drift	0.05% per C change in AVR ambient
Environment	Operation Temperature -40 to +70 C
	Storage Temperature -40 to +85 C
	Relative Humidity Max. 95%

Installation

Terminals	L1 Line taken from the output of the generator
	X+ (Positive) provides the required DC supply for the exciter winding of the generator.
	N Neutral taken from the output of the generator
	xx- (Neg.) provides the required DC supply for the exciter winding of the generator.

The power supply and the sensing terminals are common and are marked L1 - N and operates on a supply of about 220 vac (50 or 60 Hz) obtained directly from the output of the generator.

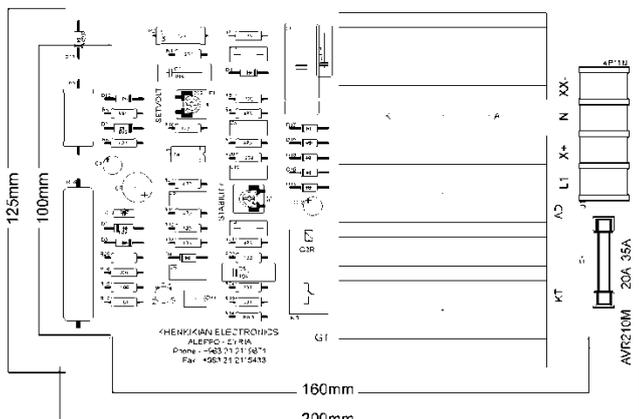
Note: be sure the frequency of the generator is fixed at 50 or 60 HZ (the adjusting of the frequency depends on the engine speed. **The AVR is not responsible for the frequency.**

In order to get optimum results during on load operation, speed variation must not exceed more than +/- 2% of the nominal value.

Adjustment	SET. VOLT To adjust the output voltage of the generator
	STABILITY Adjusts the stability of the generators output voltage to obtain optimum stability

Note: after adjusting the Stability, in some cases, Set volt needs readjustment.

Don't run the engine at over speed or under speed. if necessary, the AVR should be disconnected by removing the AVR fuse, or the lead from terminal L1, until rated speed is approximately set.



Physical Specification

Dimensions	200mm(L) X 125mm(W) X 45mm(H)
Weight	N.W.430 g +/- 2% G.W.550 +/- 2%

AVR210-35A

AVR210-35A is a half-wave phase-restricted thyristor type Automatic Voltage Regulator (AVR) and forms part of the excitation structure for a brush-less generator.

In accumulation to regulating the generator voltage Excitation power is derived directly from the generator terminals.

Features

- > Voltage regulation < 1%
- > Feedback voltage sensing
- > External voltage control 10%
- > Easy mounting and installing
- > Actual specification
- > Real guaranty from the manufacturer company Khenkikian Electronics



Specifications

Sensing Input	160-255 Vac 1 phase 2 wire
Output voltage	Max. 90 Vdc
Output current	Continuous 25A.
Output current for 10 sec.	Intermittent 40A for 10 sec.
Voltage Regulation	< +/- 1% (with 4% engine governing
Build Up Voltage	Residual volts at AVR Terminal > 1.5 Vac
External Volts Adjustment	> +/- 10% with 1K ohms trimmer
Thermal Drift	0.05% per C change in AVR ambient
Environment	Operation Temperature -40 to +70 C
	Storage Temperature -40 to +85 C
	Relative Humidity Max. 95%

Installation

Terminals	L1 Line taken from the output of the generator
	X+ (Positive) provides the required DC supply for the exciter winding of the generator.
	N Neutral taken from the output of the generator
	xx- (Neg.) provides the required DC supply for the exciter winding of the generator.

The power supply and the sensing terminals are common and are marked L1 - N and operates on a supply of about 220 vac (50 or 60 Hz) obtained directly from the output of the generator.

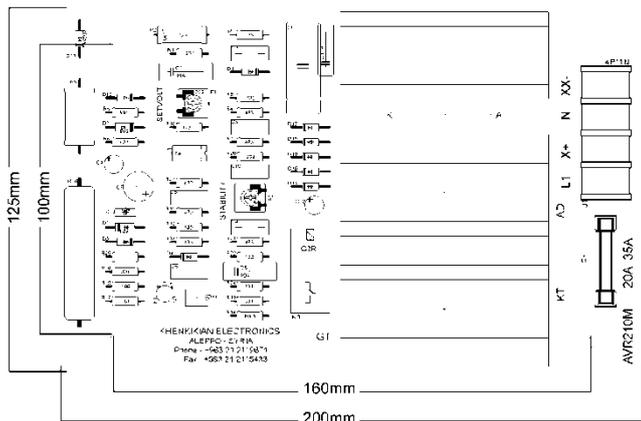
Note: be sure the frequency of the generator is fixed at 50 or 60 HZ (the adjusting of the frequency depends on the engine speed. **The AVR is not responsible for the frequency.**

In order to get optimum results during on load operation, speed variation must not exceed more than +/- 2% of the nominal value.

Adjustment	SET. VOLT To adjust the output voltage of the generator
	STABILITY Adjusts the stability of the generators output voltage to obtain optimum stability

Note: after adjusting the Stability, in some cases, Set volt needs readjustment.

Don't run the engine at over speed or under speed. if necessary, the AVR should be disconnected by removing the AVR fuse, or the lead from terminal L1, until rated speed is approximately set.



Physical Specification

Dimensions	200mm(L) X 125mm(W) X 45mm(H)
Weight	N.W.500 g +/- 2%
	G.W.600 +/- 2%

