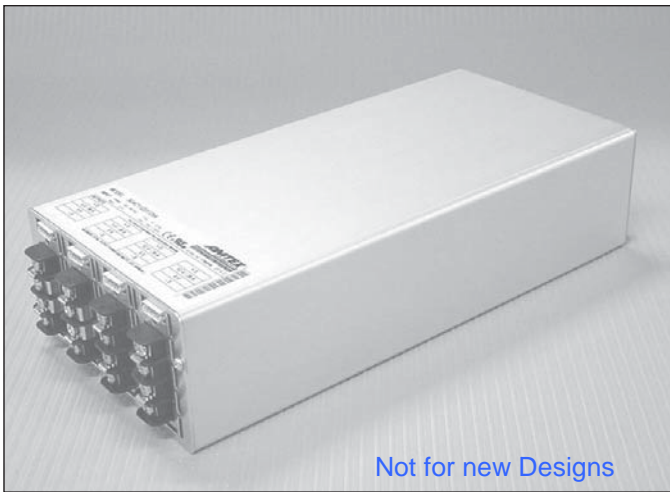


3 GEN 600 SERIES

AC/DC Single & Multi Output: 200 - 600 Watts



Specifications

INPUT VOLTAGE:	88~264 VAC (125~370 VDC)
FREQUENCY:	47Hz - 63Hz (400Hz optional)
INRUSH CURRENT:	50A maximum
HARMONICS & PFC:	Power factor typically 0.98 in accordance with EN61000-3-2
OUTPUT POWER:	400W for input module "B" 600W for input module "C"
OUTPUT ADJUSTMENT:	Multi-turn potentiometer
LINE REGULATION:	±0.1% typical
LOAD REGULATION:	±0.2% for 50% load change
CROSS REGULATION:	±0.5% maximum
TRANSIENT RESPONSE:	< 10%, <0.5 ms 25% - 75% load change
TEMP. CO-EFFICIENT:	±0.02% per °C
RIPPLE & NOISE:	1.0% or 100mV pk - pk
PROTECTION:	Overvoltage protection on all outputs. Constant current limiting on each output. Thermal protection
MAINS FAILURE:	5ms warning signal
MODULE ISOLATION:	100V isolation between each output and 500V to chassis.
MARGIN:	±10% trim
MINIMUM LOAD:	Zero, except module 70 which has a 5% minimum load to meet regulation specs.
REMOTE SENSE:	Single outputs only, 0.5V drop
EMC:	EN55022, FCC level B conducted EN61000-4-2 level 3 ESD EN61000-4-3 level 3 radiated field EN61000-4-4 level 3 fast transients EN61000-4-5 level 5 input line surges
HOLD-UP TIME:	20ms after loss of AC power
EFFICIENCY:	Typically 80%
ISOLATION:	Input - output: 3000 VAC Input - chassis: 1500 VAC
SWITCHING FREQUENCY:	200kHz
LEAKAGE CURRENT:	<2.03mA, 250 VAC, 60Hz
MTBF:	400,000 hours per MIL HBK 217F
OPERATING TEMP:	-10°C to 50°C at full load, derate to 50% at 70°C
SHOCK:	3000 bumps, 10G (16ms) half sine
VIBRATION:	10-200Hz, 1.5G
HUMIDITY:	5% to 95% RH
DIMENSIONS:	280 x 127 x 65mm 2.5kg.

Features

- 1 to 9 fully isolated outputs
- 2V to 28V standard output modules with series or parallel operation
- 200W - 600W output power levels
- Zero load operation
- EN61000-3-2 compliant
- Safety approvals IEC950, EN60950, UL1950
- Low leakage current <1.75mA
- Universal input 88 - 264 VAC with PFC
- Modular design, total flexibility
- Compact design, low profile 65mm
- Delivery within one week for most models
- Individual output signals options
- Suitable for a wide range of high tech applications
- Parallel operation of modules ... derate by 10%
- **Optional ... medically approved models to IEC601-1, UL2601**

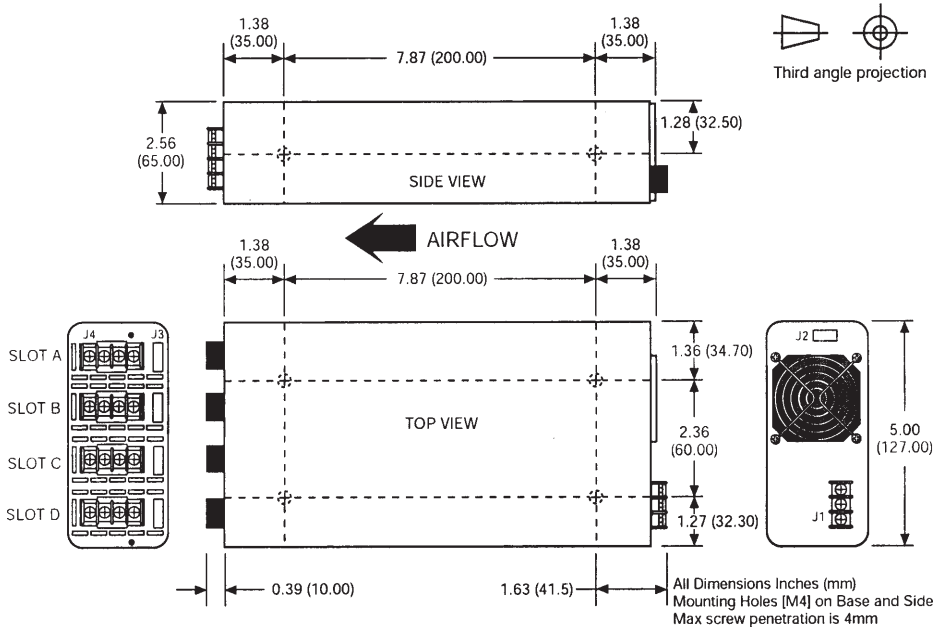
Output Module	Output V	Output A	Voltage Range	No. of Slots
1	5V	30A	3~5.6V	1
2	12V	20A	5~13V	1
3	18V	15A	8~20V	1
4	24V	12A	12~28V	1
5	24V 24V	3A 3A	10~28V 10~28V	1
6	5V 24V	10A 3A	3~5.6V 10~28V	1
70	5V	80A (with current limit adjustment)	1.5~5.6V	2



3 GEN 600 SERIES

AC/DC Single & Multi Output: 200 - 600 Watts

Mechanical Specifications - 4 Slot



Connectors:

- J1 Line input connector
- J2 Options
See AN105 for Pin-out
- J3 Output Signals
See AN105 for Pin-out
- J4 Output connector

Accessories:

- 61069 Parallel link
- 61070 Series link
- 362D010 "U" link
- OPCONN4 Mating connector for options + Module 1-6 signals
- OPCONN6 Mating connector for Module 70 signals

3 Gen 4 slot signal options:

- 03 mains power fail + logic enable
- 05 mains power fail + logic inhibit
- 06 mains power fail + logic enable + bias supply voltage
- 07 mains power fail + logic inhibit + bias supply voltage

Options: Mutually exclusive

Standard output signals:

Output control signals are available on all output modules

Modules 1 to 6:

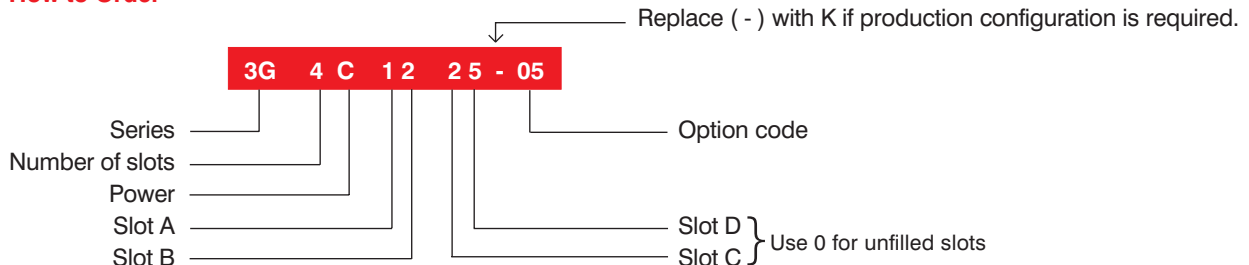
- Power good signal
- Output inhibit signal
- Remote adjust (margin)

Module 70 additional features (See AN105):

- Adjustable current limit
- Foldback or straight line current limiting
- Bias voltage
- Selectable output inhibit or enable

(Dual output modules: Output signals are available on the first {top} output only)

How to Order



Specification of Power Supply detailed above:

- 4 slot series
- Maximum output power: 600W
- 5V @ 30A; 12V @ 20A; 12V @ 20A; 24V @ 3A;
- Mains power failure signal + Logic inhibit

Production configuration:

Units are shipped with nominal output voltages unless production configuration is specified.

We can configure to your exact requirements, through use of appropriate parallel and series busbars and through voltage adjustment to specific set points.

Note:

Calculate power requirements by summing output powers calculated at **Nominal** output voltages

3 GEN 1000 SERIES

AC/DC Single & Multi Output: 600 - 1000 Watts



Features

- 1 to 13 fully isolated outputs
- 2V to 28V standard output modules with series or parallel operation
- 600W and 1000W output power levels
- Zero load operation
- EN61000-3-2 compliant
- Safety approvals IEC950, EN60950, UL1950
- Low leakage current <1.75mA
- Universal input 88 - 264 VAC with PFC
- Modular design, total flexibility
- Compact design, low profile 65mm
- Delivery within one week for most models
- Individual output signals options
- Suitable for a wide range of high tech applications
- Parallel operation of modules ... derate by 10%
- **Optional ... medically approved models to IEC601-1, UL2601**

Output Module	Output V	Output A	Voltage Range	No. of Slots
1	5V	30A	3~5.6V	1
2	12V	20A	5~13V	1
3	18V	15A	8~20V	1
4	24V	12A	12~28V	1
5	24V	3A	10~28V	1
	24V	3A	10~28V	
6	5V	10A	3~5.6V	1
	24V	3A	10~28V	
70	5V	80A	1.5~5.6V	2
	(with current limit adjustment)			

Specifications

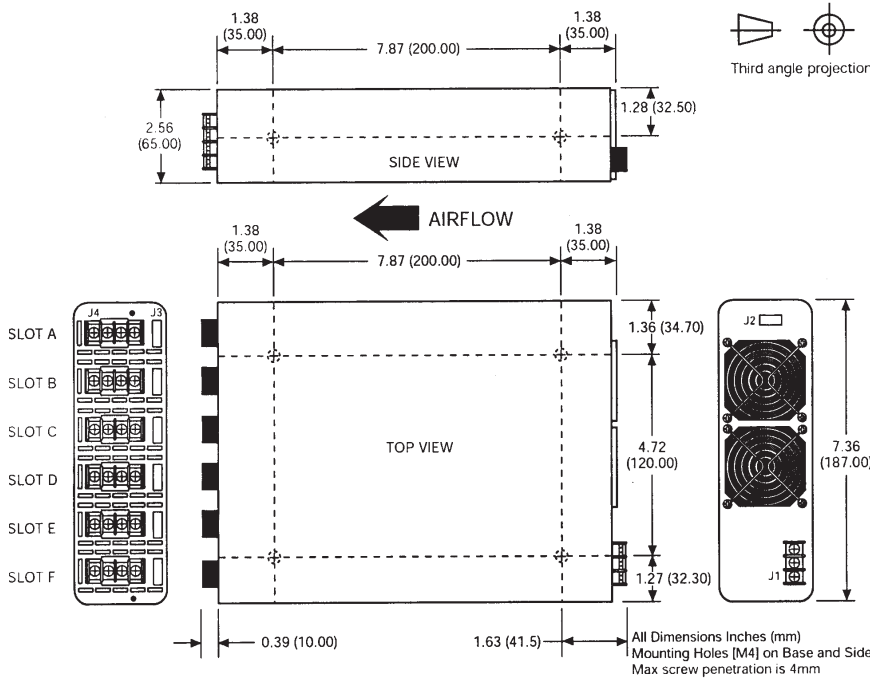
INPUT VOLTAGE:	88~264 VAC (125~370 VDC) • 180~264 VAC for >800W units
FREQUENCY:	47Hz - 63Hz (400Hz optional)
INRUSH CURRENT:	50A maximum
HARMONICS & PFC:	Power factor typically 0.98 in accordance with EN61000-3-2
OUTPUT POWER:	600W for input module "C" 1000W for input module "D"
OUTPUT ADJUSTMENT:	Multi-turn potentiometer
LINE REGULATION:	±0.1% typical
LOAD REGULATION:	±0.2% for 50% load change
CROSS REGULATION:	±0.5% maximum
TRANSIENT RESPONSE:	<10%, <0.5 ms 25% - 75% load change
TEMP. CO-EFFICIENT:	±0.02% per°C
RIPPLE & NOISE:	1.0% or 100mV pk - pk Optional low noise modules available down to 100µ V rms.
PROTECTION:	Overvoltage protection on all outputs. Constant current limiting on each output. Thermal protection
MAINS FAILURE:	5ms warning signal
MODULE ISOLATION:	100V isolation between each output and 500V to chassis.
MARGIN:	±10% trim
MINIMUM LOAD:	Zero, except module 70 which has a 5% minimum load to meet regulation specs.
REMOTE SENSE:	Single outputs only, 0.5V drop
EMC:	EN55022, FCC level B conducted EN61000-4-2 level 3 ESD EN61000-4-3 level 3 radiated field EN61000-4-4 level 3 fast transients EN61000-4-5 level 5 input line surges
HOLD-UP TIME:	20ms after loss of AC power
EFFICIENCY:	Typically 80%
ISOLATION:	Input - output: 3000 VAC Input - chassis: 1500 VAC
SWITCHING FREQUENCY:	200kHz
LEAKAGE CURRENT:	<2.03mA, 250 VAC, 60Hz
MTBF:	400,000 hours per MIL HBK 217F
OPERATING TEMP:	0°C to 50°C at full load, derate to 50% at 70°C
SHOCK:	3000 bumps, 10G (16ms) half sine
VIBRATION:	10 - 200Hz, 1.5G
HUMIDITY:	5% to 95% RH
DIMENSIONS:	280 x 187 x 65mm 3.5kg



3 GEN 1 000 SERIES

AC/DC Single & Multi Output: 600 - 1000 Watts

Mechanical Specifications - 6 Slot



Connectors:

- J1 Line input connector
- J2 Options
 - See AN105 for Pin-out
- J3 Output Signals
 - See AN105 for Pin-out
- J4 Output connector

Accessories:

- 61069 Parallel link
- 61070 Series link
- 362D010 "U" link
- OPCONN4 Mating connector for options + Module 1-6 signals
- OPCONN6 Mating connector for Module 70 signals

3 Gen 6 slot signal options:

- 03 mains power fail + logic enable
- 05 mains power fail + logic inhibit
- 06 mains power fail + logic enable + bias supply voltage
- 07 mains power fail + logic inhibit + bias supply voltage

Options: Mutually exclusive

Standard output signals:

Output control signals are available on all output modules

Modules 1 to 6:

- Power good signal
- Output inhibit signal
- Remote adjust (margin)

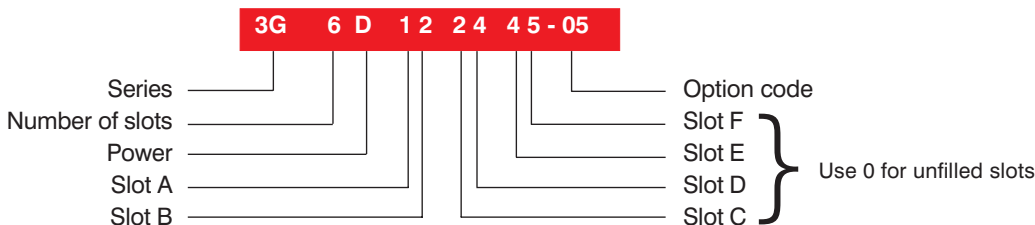
Module 70 additional features (See AN105):

- Adjustable current limit
- Foldback or straight line current limiting
- Bias voltage
- Selectable output inhibit or enable

(Dual output modules: Output signals are available on the first {top} output only)

How to Order

Replace (-) with K if production configuration is required.



Specification of Power Supply detailed above:

- 6 slot series
- Maximum output power: 1000W
- 5V @ 30A; 12V @ 20A; 12V @ 20A; 24V @ 12A; 24V @ 3A; 24V @ 3A
- Mains power failure signal + logic inhibit

Production configuration:

Units are shipped with nominal output voltages unless production configuration is specified. We can configure to your exact requirements, through use of appropriate parallel and series busbars and through voltage adjustment to specific set points.

Note:

Calculate power requirements by summing output powers calculated at **Nominal** output voltages