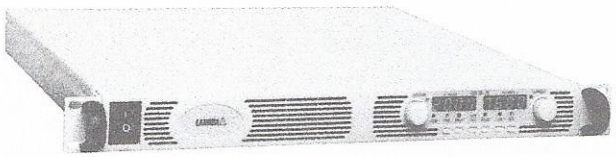
TDK·Lambda

# GENESYS 2400W Series

## 2400W급 Full Rack CVCC 직류가변전원장치



- ◆ 랙마운트형 가변전원
- ◆ 입력조건/안전규격/월드와이드 대응
- ◆ 고효율/고조파전류제어 (Active-Filter방식)
- ◆ 높은 분석능력 : 16비트 A/D 및 D/A컨버터내장
- ◆ 마스터 및 슬레이브 병렬운전 (최대 4대) / 직렬운전 (최대 2대)
- ◆ Low Profile (1U)
- ◆ RS232 및 RS485 인터페이스기능 기본장착

RoHS

### 주요 시장 및 적용 가능 장비

반도체 장비 및 Burn-in 시스템
레이저 다이오드 및 자동화 장비
태양광 셀 및 Fuel 셀 제조장비
자동차제조 및 검사장비
의료장비 (이미징시스템 및 치료장비)
배터리 테스터 및 각종 계측장비
유기EL증착장비 및 MOCVD

### 특징 및 장점

| 특 징 | 장 점 |
|---|---|
| ◆ 정전압 및 정전류 모드 가능 | ◆ 전세계 어디서나 사용가능 |
| ◆ Last Setting Memory 기능 추가 | ◆ 높은 정밀도 보유 |
| ◆ 600V까지 최대출력전압, 300A까지 최대출력전류 | ◆ GPIB옵션 추가 가능 |

### 제품 사양

| ITEMS | MODELS | GEN8-300-D | GEN10-240-D | GEN16-150-D | GEN20-120-D | GEN30-80-D | GEN40-60-D | GEN60-40-D | GEN80-30-D | GEN100-24-D | GEN150-16-D | GEN300-8-D | GEN600-4-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Norminal Output Volatge | V | 8 | 10 | 16 | 20 | 30 | 40 | 60 | 80 | 100 | 150 | 300 | 600 |
| Norminal Output Current | A | 300 | 240 | 150 | 120 | 80 | 60 | 40 | 30 | 24 | 16 | 8 | 4 |
| Norminal Output Wattage | W | 2400 | 2400 | 2400 | 2400 | 2400 | 2400 | 2400 | 2400 | 2400 | 2400 | 2400 | 2400 |
| Efficiency(Typ) 3phase 208VAC | % | 84% | 84% | 86% | 86% | 88% | 88% | 88% | 88% | 88% | 88% | 88% | 87% |
| Input Volatge / Frequency | | 170-265VAC, Sing Phase, 47-63Hz or 170-265VAC, 3-Phase, 47-63Hz | | | | | | | | | | | |
| Input Current (3phase 208V/single230V) | A | 10.5 / 17 | 10.5 / 17 | 10.5 / 17 | 9.8 / 16.3 | 9.8 / 16.3 | 9.8 / 16.3 | 9.8 / 16.3 | 9.8 / 16.3 | 9.8 / 16.3 | 9.8 / 16.3 | 9.8 / 16.3 | 9.8 / 16.3 |
| Power Factor (Typ) | | Single Phase models : 0.99@230VAC, rated output power. 3-Phase models : 0.94@208VAC, rated output power | | | | | | | | | | | |
| Inrush Current | A | Less than 50A | | | | | | | | | | | |
| Protection | | OCP(Over Current Protection), OTP(Over Temperature Protection), OVP(Over Voltage Protection), UVP(Under Voltage Protection) | | | | | | | | | | | |
| OVP Range | V | 0.5 - 10 | 0.5 - 12 | 1 - 19 | 1 - 24 | 2 - 36 | 2 - 44 | 5 -66 | 5 - 88 | 5 - 110 | 5 - 165 | 5 - 330 | 5 - 660 |
| **1.1 Constant Voltage Mode** | | | | | | | | | | | | | |
| Line Regulation | mV | 2.8 | 3 | 3.6 | 4 | 5 | 6 | 8 | 10 | 12 | 17 | 32 | 62 |
| Load Regulation | mV | 6.2 | 6.5 | 7.4 | 8 | 9.5 | 11 | 14 | 17 | 20 | 27.5 | 50 | 95 |
| Ripple and Noise pk-pk (20Mz) | mV | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 80 | 80 | 100 | 200 | 300 |
| Ripple and Noise rms (5Hz-1MHz) | mV | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 25 | 50 | 75 |
| Remote sense compensation/Line | V | 2 | 2 | 2 | 2 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Temperature Coefficient | PPM/℃ | 100PPM/℃ of rated output voltage, Following 30 minutes warm-up | | | | | | | | | | | |
| Up programming response time | mS | 15 | | | | | 20 | 30 | 40 | | 60 | 80 | 100 |
| Dwn prog. Resp. time (Full Load) | mS | 10 | | | 20 | | | | 50 | | 80 | 150 | 250 |
| Dwn prog. Resp. time (No Load) | mS | 500 | 500 | 500 | 500 | 600 | 700 | 1100 | 1200 | 1500 | 2500 | 3000 | 4000 |
| Transient response time | mS | Less than 1mSec for models up to and including 100V. 2msec for models above 100V | | | | | | | | | | | |
| **1.2 Constant Current Mode** | | | | | | | | | | | | | |
| Line Regulation | mA | 32 | 26 | 17 | 14 | 10 | 8 | 6 | 5 | 4.4 | 3.6 | 2.8 | 2.4 |
| Load Regulation | mA | 65 | 53 | 35 | 29 | 21 | 17 | 13 | 11 | 9.8 | 8.2 | 6.6 | 5.8 |
| Ripple and Noise rms (5Hz-1MHz) | mV | 1200 | 960 | 600 | 480 | 20 | 120 | 70 | 50 | 40 | 30 | 15 | 7 |
| Temperature Coefficient | PPM/℃ | 100PPM/℃ of rated output voltage, Following 30 minutes warm-up | | | | | | | | | | | |
| **1.3 Display** | | | | | | | | | | | | | |
| Display - Voltage | | 4 digits, Accuracy:0.5% of rated output voltage ±1count | | | | | | | | | | | |
| Display - Current | | 4 digits, Accuracy:0.5% of rated output current ±1count | | | | | | | | | | | |
| **1.4 Analog programming and monitoring** | | | | | | | | | | | | | |
| Vout Voltage Programming | | 0-100%, 0-5V or 0-10V, user select. Accuracy and linearity : ±0.5% of rated Vout. | | | | | | | | | | | |
| Iout Voltage Programming | | 0-100%, 0-5V or 0-10V, user select. Accuracy and linearity : ±1% of rated Iout. | | | | | | | | | | | |
| Vout Resistor Programming | | 0-100%, 0-5/10kohm full scales, user select. Accuracy and linearity : ±1% of rated Vout. | | | | | | | | | | | |
| Iout Resistor Programming | | 0-100%, 0-5/10kohm full scales, user select. Accuracy and linearity : ±1.5% of rated Iout. | | | | | | | | | | | |
| On/Off control (rear panel) | | By electrical. Voltage : 0-0.6V/2-15V, or dry contact, user selectable logic | | | | | | | | | | | |
| Output Current monitor | | 0-5V or 0-10V, Accuracy : ±1%, user selectable. | | | | | | | | | | | |
| Output Voltage monitor | | 0-5V or 0-10V, Accuracy : ±1%, user selectable. | | | | | | | | | | | |
| Power Supply OK signal | | TTL high(4-5V) - OK, 0V fail 500ohm series resistance. | | | | | | | | | | | |
| CV/CC indicator | | Open Collector. CC mode:ON, CV Mode:OFF, Maximum Voltage:30V, Maximum sink current : 10mA | | | | | | | | | | | |
| Enable/Disable | | Dry contact. Open:off, Short:on, Max.voltage at Enable/Disable in : 6V | | | | | | | | | | | |
| Local/Remote analog control | | By electrical signal or Open/Short:0-0.6V or short : Remote, 2-15V or open:Local. | | | | | | | | | | | |
| Local/Remote analog control indicator | | Open collector, Local:Off, Remote:Open. Maximum voltage:30V, Maximum sink current:10mA | | | | | | | | | | | |
| **1.5 Digital Programming and Readback** | | | | | | | | | | | | | |
| Accuracy of Vout programming | mV | 0.05% of output voltage + 0.05% of Notminal output voltage | | | | | | | | | | | |
| Accuracy of Iout programming | mA | 0.1% of output current + 0.1% of Notminal current voltage | | | | | | | | | | | |
| Resolution of Vout programming | mV | 0.012% of Norminal current (Full-scale) | | | | | | | | | | | |
| Resolution of Iout programming | mA | 0.012% of Norminal current (Full-scale) | | | | | | | | | | | |
| Accuracy of Vout Readback | mV | 0.1% of output voltage + 0.1% of Notminal output voltage | | | | | | | | | | | |
| Accuracy of Iout Readback | mA | 0.1% of output current + 0.3% of Notminal current voltage | | | | | | | | | | | |
| Resolution of Vout Readback | mV | 0.012% of Norminal current (Full-scale) | | | | | | | | | | | |
| Resolution of Iout Readback | mA | 0.012% of Norminal current (Full-scale) | | | | | | | | | | | |
| **1.6 Environment Condition** | | | | | | | | | | | | | |
| Operating Temperature | | 0 - 50℃ | | | | | | | | | | | |
| Storage Temperature | | -20 - 85℃ | | | | | | | | | | | |
| Operating Humidity | | 20 - 90%RH (Non Condensing) | | | | | | | | | | | |
| Storage Humidity | | 10 - 95%RH (Non Condensing) | | | | | | | | | | | |
| **1.7 Safety and Mechanical Consrtuction** | | | | | | | | | | | | | |
| Cooling | | Forced air flow: From front to rear. No ventilation holes at the top or bottom of the chassis; Variable fan speed | | | | | | | | | | | |
| Weight | | 10kg | | | | | | | | | | | |
| Size (W x H x D) | | W:423mm, H:43.6mm, D:432.8mm (Excluding connectors, encoders, handles, etc.) | | | | | | | | | | | |
| Vibration & Shock (Non-op.) | | MIL-STD-810F, method 514.5, TheEUT is fixed to the vibrating surface / Lass than 20G, half sine, 11mSec. Unit is unpacked | | | | | | | | | | | |
| Safety Agency Approvals | | UL60950-1, EN60950-1. EN55024, CE Marking | | | | | | | | | | | |
| Withsatnd Voltage | | Input - Output : 4242VDC (1min), Input - FG : 2828VDC (1min) | | | | | | | | | | | |
| Isolation Resistance | | More than 100MΩ at 25℃, 70%RH, 500Vdc | | | | | | | | | | | |
| Conducted & Radiated EMI | | Conducted : EN55022A,FCC part 15-A, VCCI-A / Radiated : EN55022A,FCC part 15-A, VCCI-A | | | | | | | | | | | |
| Warranty | | 5 Years | | | | | | | | | | | |

TDK·Lambda

# GENESYS 3300W Series

## 3300W급 Full Rack CVCC 직류가변전원장치



- ◆ 랙마운트형 가변전원
- ◆ 입력조건/안전규격/월드와이드 대응
- ◆ 고효율/고조파전류제어 (Active-Filter방식)
- ◆ 높은 분석능력 : 16비트 A/D 및 D/A컨버터내장
- ◆ 마스터 및 슬레이브 병렬운전 (최대 4대) / 직렬운전 (최대 2대)
- ◆ Low Profile (2U)
- ◆ RS232 및 RS485 인터페이스기능 기본장착

RoHS

### 주요 시장 및 적용 가능 장비

| | |
|---|---|
| 반도체 장비 및 Burn-in 시스템 | 의료장비 (이미징시스템 및 치료장비) |
| 레이저 다이오드 및 자동화 장비 | 배터리 테스터 및 각종 계측장비 |
| 태양광 셀 및 Fuel 셀 제조장비 | 유기EL증착장비 및 MOCVD |
| 자동차제조 및 검사장비 | |

### 특징 및 장점

| 특 징 | 장 점 |
|---|---|
| ◆ 정전압 및 정전류 모드 가능 | ◆ 전세계 어디서나 사용가능 |
| ◆ Last Setting Memory 기능 추가 | ◆ 높은 정밀도 보유 |
| ◆ 600V까지 최대출력전압, 300A까지 최대출력전류 | ◆ GPIB옵션 추가 가능 |

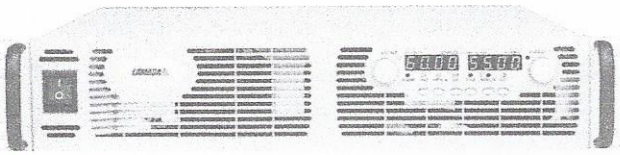
### 제품 사양

| ITEMS \ MODELS | | GEN8-400-D | GEN10-330-D | GEN15-220-D | GEN20-165-D | GEN30-110-D | GEN40-85-D | GEN60-55-D | GEN80-42-D | GEN100-33-D | GEN150-22-D | GEN300-11-D | GEN600-5.5-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nominal Output Volatge | V | 8 | 10 | 15 | 20 | 30 | 40 | 60 | 80 | 100 | 150 | 300 | 600 |
| Nominal Output Current | A | 400 | 330 | 220 | 165 | 110 | 85 | 55 | 42 | 33 | 22 | 11 | 5.5 |
| Nominal Output Wattage | W | 3200 | 3300 | 3300 | 3300 | 3300 | 3400 | 3300 | 3360 | 3300 | 3300 | 3300 | 3300 |
| Efficiency(Typ) each phase 208VAC | % | 82% | 84% | 84% | 86% | 86% | 88% | 88% | 88% | 88% | 88% | 88% | 87% |
| Input Volatge / Frequency | | 170-265VAC, Sing Phase, 47-63Hz / 170-265VAC, 3-Phase, 47-63Hz / 342-460VAC, 3-Phase, 47-63Hz | | | | | | | | | | | |
| Input Current (Single 230V / 3phase 208V / 3Phase 400V) | A | 24 / 14.5 / 7.2 | 24 / 14.5 / 7.2 | 24 / 14.5 / 7.2 | 23 / 14.5 / 7.2 | 24 / 14 / 7 | 23 / 14.5 / 7.2 | 23 / 13.6 / 6.8 | 23.5 / 14 / 7 | 23 / 13.7 / 6.8 | 23 / 13.7 / 6.8 | 23 / 13.8 / 6.9 | 23 / 13.9 / 7 |
| Power Factor (Typ) | | Single Phase models : 0.99@230VAC, rated output power. 3-Phase models : 0.94@208/380VAC, rated output power | | | | | | | | | | | |
| Inrush Current | A | Single-Phase and 3-Phase 208V models : Less than 50A, 3-Phase 400Vmodels : Less than 20A | | | | | | | | | | | |
| Protection | | OCP(Over Current Protection), OTP(Over Temperature Protection), OVP(Over Voltage Protection), UVP(Under Voltage Protection) | | | | | | | | | | | |
| OVP Range | V | 0.5 - 10 | 0.5 - 12 | 1 - 18 | 1 - 24 | 2 - 36 | 2 - 44 | 5 -66 | 5 - 88 | 5 - 110 | 5 - 165 | 5 - 330 | 5 - 660 |
| **1.1 Constant Voltage Mode** | | | | | | | | | | | | | |
| Line Regulation | mV | 2.8 | 3 | 3.5 | 4 | 5 | 6 | 8 | 10 | 12 | 17 | 32 | 62 |
| Load Regulation | mV | 6.2 | 6.5 | 7.25 | 8 | 9.5 | 11 | 14 | 17 | 20 | 27.5 | 50 | 95 |
| Ripple and Noise pk-pk (20Mz) | mV | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 80 | 100 | 100 | 300 | 500 |
| Ripple and Noise rms (5Hz-1MHz) | mV | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 25 | 100 | 120 |
| Remote sense compensation/Line | V | 2 | 2 | 2 | 2 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Temperature Coefficient | PPM/℃ | 100PPM/℃ of rated output voltage, Following 30 minutes warm-up | | | | | | | | | | | |
| Up programming response time | mS | 80 | | | | | | | | 150 | | | 250 |
| Dwn prog. Resp. time (Full Load) | mS | 20 | | 100 | | | 160 | | | 300 | | | 500 |
| Dwn prog. Resp. time (No Load) | mS | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1500 | 2000 | 3500 | 4000 |
| Transient response time | mS | Less than 1mSec for models up to and including 100V. 2msec for models above 100V | | | | | | | | | | | |
| **1.2 Constant Current Mode** | | | | | | | | | | | | | |
| Line Regulation | mA | 42 | 35 | 24 | 18.5 | 13 | 10.5 | 7.5 | 6.2 | 5.3 | 4.2 | 3.1 | 2.6 |
| Load Regulation | mA | 85 | 71 | 49 | 38 | 27 | 22 | 16 | 13.4 | 11.6 | 9.4 | 7.2 | 6.1 |
| Ripple and Noise rms (5Hz-1MHz) | mV | 1300 | 1200 | 880 | 60 | 300 | 200 | 100 | 80 | 70 | 60 | 20 | 10 |
| Temperature Coefficient | PPM/℃ | 200PPM/℃ of rated output voltage, Following 30 minutes warm-up | | | | | | | | | | | |
| **1.3 Display** | | | | | | | | | | | | | |
| Display - Voltage | | 4 digits, Accuracy:0.5% of rated output voltage ±1count | | | | | | | | | | | |
| Display - Current | | 4 digits, Accuracy:0.5% of rated output current ±1count | | | | | | | | | | | |
| 1.4 Analog programming and monitoring | | | | | | | | | | | | | |
| Vout Voltage Programming | | 0-100%, 0-5V or 0-10V, user select. Accuracy and linearity : ±0.5% of rated Vout. | | | | | | | | | | | |
| Iout Voltage Programming | | 0-100%, 0-5V or 0-10V, user select. Accuracy and linearity : ±1% of rated Iout. | | | | | | | | | | | |
| Vout Resistor Programming | | 0-100%, 0-5/10kohm full scales, user select. Accuracy and linearity :±1% of rated Vout. | | | | | | | | | | | |
| Iout Resistor Programming | | 0-100%, 0-5/10kohm full scales, user select. Accuracy and linearity : ±1.5% of rated Iout. | | | | | | | | | | | |
| On/Off control (rear panel) | | By Voltage:0.6V = Disable, 2-15V = enable (default) or dry contact, user selectable logic | | | | | | | | | | | |
| Output Current monitor | | 0-5V or 0-10V, Accuracy : ±1%, user selectable. | | | | | | | | | | | |
| Output Voltage monitor | | 0-5V or 0-10V, Accuracy : ±1%, user selectable. | | | | | | | | | | | |
| Power Supply OK signal | | Yes. TTL high-OK, 0V (500ohm impedance)-Fail | | | | | | | | | | | |
| CV/CC indicator | | CV:TTL high(4-5V) source 10mA, CC:TTL low (0-0.6V), sink current : 10mA | | | | | | | | | | | |
| Enable/Disable | | Dry contact. Open:off, Short:on, Max.voltage at Enable/Disable in : 6V | | | | | | | | | | | |
| Local/Remote analog control | | By electrical signal or Open/Short:0-0.6V or short : Remote, 4-5V or open:Local. | | | | | | | | | | | |
| Local/Remote analog control indicator | | Open collector, Local:Off, Remote:Open. Maximum voltage:30V, Maximum sink current:10mA | | | | | | | | | | | |
| **1.5 Digital Programming and Readback** | | | | | | | | | | | | | |
| Accuracy of Vout programming | mV | 0.05% of output voltage + 0.05% of Notminal output voltage | | | | | | | | | | | |
| Accuracy of Iout programming | mA | 0.1% of output current + 0.2% of Notminal current voltage | | | | | | | | | | | |
| Resolution of Vout programming | mV | 0.012% of Norminal current (Full-scale) | | | | | | | | | | | |
| Resolution of Iout programming | mA | 0.012% of Norminal current (Full-scale) | | | | | | | | | | | |
| Accuracy of Vout Readback | mV | 0.1% of output voltage + 0.1% of Notminal output voltage | | | | | | | | | | | |
| Accuracy of Iout Readback | mA | 0.1% of output current + 0.3% of Notminal current voltage | | | | | | | | | | | |
| Resolution of Vout Readback | mV | 0.012% of Norminal current (Full-scale) | | | | | | | | | | | |
| Resolution of Iout Readback | mA | 0.012% of Norminal current (Full-scale) | | | | | | | | | | | |
| **1.6 Environment Condition** | | | | | | | | | | | | | |
| Operating Temperature | | 0 - 50℃ | | | | | | | | | | | |
| Storage Temperature | | -30 - 85℃ | | | | | | | | | | | |
| Operating Humidity | | 20 - 90%RH (Non Condensing) | | | | | | | | | | | |
| Storage Humidity | | 10 - 95%RH (Non Condensing) | | | | | | | | | | | |
| **1.7 Safety and Mechanical Consrtuction** | | | | | | | | | | | | | |
| Cooling | | Forced air flow: From front to rear. No ventilation holes at the top or bottom of the chassis; Variable fan speed | | | | | | | | | | | |
| Weight | | 15kg | | | | | | | | | | | |
| Size (W x H x D) | | W:423mm, H:88mm, D:442mm (Excluding connectors, encoders, handles, etc.) | | | | | | | | | | | |
| Vibration & Shock (Non-op.) | | MIL-STD-810F, method 514.5, TheEUT is fixed to the vibrating surface / Lass than 20G, half sine, 11mSec. Unit is unpacked | | | | | | | | | | | |
| Safety Agency Approvals | | UL60950-1, EN60950-1. EN55024, CE Marking | | | | | | | | | | | |
| Withsatnd Voltage | | Input - Output : 4242VDC (1min), Input - FG : 2828VDC (1min) | | | | | | | | | | | |
| Isolation Resistance | | More than 100MΩ at 25℃ 70%RH, 500Vdc | | | | | | | | | | | |
| Conducted & Radiated EMI | | Conducted : EN55022A,FCC part 15-A, VCCI-A / Radiated : EN55022A,FCC part 15-A, VCCI-A | | | | | | | | | | | |
| Warranty | | 5 Years | | | | | | | | | | | |

TDK·Lambda

# GENESYS 5000W Series

## 5000W급 Full Rack CVCC 직류가변전원장치



- ◆ 랙마운트형 가변전원
- ◆ 입력조건/안전규격/월드와이드 대응
- ◆ 고효율/고조파전류제어 (Active-Filter방식)
- ◆ 높은 분석능력 : 16비트 A/D 및 D/A컨버터내장
- ◆ 마스터 및 슬레이브 병렬운전 (최대 4대) / 직렬운전 (최대 2대)
- ◆ Low Profile (2U)
- ◆ RS232 및 RS485 인터페이스기능 기본장착

RoHS

### 주요 시장 및 적용 가능 장비

반도체 장비 및 Burn-in 시스템
레이저 다이오드 및 자동화 장비
태양광 셀 및 Fuel 셀 제조장비
자동차제조 및 검사장비
의료장비 (이미징시스템 및 치료장비)
배터리 테스터 및 각종 계측장비
유기EL증착장비 및 MOCVD

### 특징 및 장점

| 특 징 | 장 점 |
|---|---|
| ◆ 정전압 및 정전류 모드 가능 | ◆ 전세계 어디서나 사용가능 |
| ◆ Last Setting Memory 기능 추가 | ◆ 높은 정밀도 보유 |
| ◆ 600V까지 최대출력전압, 300A까지 최대출력전류 | ◆ GPIB옵션 추가 가능 |

### 제품 사양

| ITEMS \ MODELS | | GEN8-600-D | GEN10-500-D | GEN16-310-D | GEN20-250-D | GEN30-170-D | GEN40-125-D | GEN60-85-D | GEN80-65-D | GEN100-50-D | GEN150-34-D | GEN300-17-D | GEN600-8.5-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nominal Output Volatge | V | 8 | 10 | 16 | 20 | 30 | 40 | 60 | 80 | 100 | 150 | 300 | 600 |
| Nominal Output Current | A | 600 | 500 | 310 | 250 | 170 | 125 | 85 | 65 | 50 | 34 | 17 | 8.5 |
| Nominal Output Wattage | W | 4800 | 5000 | 4960 | 5000 | 5100 | 5000 | 5100 | 5200 | 5000 | 5100 | 5100 | 5100 |
| Efficiency(Typ) | % | 84% | 84% | 84% | 86% | 86% | 88% | 90% | 88% | 88% | 88% | 88% | 88% |
| Input Volatge / Frequency | | 3-Phase, 200VAC, 208VAC and 230VAC Models : 170-265Vrms, 47-63Hz / 3-Phase, 400V models : 342-460VAC, 47-63Hz | | | | | | | | | | | |
| Input Current (Single 230V / 3Phase 400V) | A | 20.7 / 10.3 | 21.5 / 10.7 | 21.4 / 10.6 | 21 / 10.5 | 21.5 / 10.2 | 20.6 / 10.2 | 20.5 / 10.2 | 21.4 / 10.6 | 20.6 / 10.2 | 21 / 10.4 | 21 / 10.4 | 21 / 10.4 |
| Power Factor (Typ) | | 0.94 at 100% load and 208V/380V/400V/415V | | | | | | | | | | | |
| Inrush Current | A | 3-Phase 200V models : 50A, 3-Phase 400Vmodels : 20A, Not Including the EMI filter inrush current, less than 0.2mSec. | | | | | | | | | | | |
| Protection | | OCP(Over Current Protection), OTP(Over Temperature Protection), OVP(Over Voltage Protection), UVP(Under Voltage Protection) | | | | | | | | | | | |
| OVP Range | V | 0.5 - 10 | 0.5 - 12 | 1 - 19 | 1 - 24 | 2 - 36 | 2 - 44.1 | 5 - 66.15 | 5 - 88.2 | 5 - 110.25 | 5 - 165.3 | 5 - 330.7 | 5 - 661.5 |
| **1.1 Constant Voltage Mode** | | | | | | | | | | | | | |
| Line Regulation | mV | 0.8 | 1 | 1.6 | 2 | 3 | 4 | 6 | 8 | 10 | 15 | 30 | 60 |
| Load Regulation | mV | 6.2 | 6.5 | 7.4 | 8 | 9.5 | 11 | 14 | 17 | 20 | 27.5 | 50 | 95 |
| Ripple and Noise pk-pk (20Mz) | mV | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 80 | 100 | 120 | 200 | 500 |
| Ripple and Noise rms (5Hz-1MHz) | mV | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 12 | 15 | 25 | 35 | 120 |
| Remote sense compensation/Line | V | 2 | 2 | 2 | 2 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Temperature Coefficient | PPM/℃ | 100PPM/℃ of rated output voltage, Following 30 minutes warm-up | | | | | | | | | | | |
| Up programming response time | mS | 30 | | | | | | | | 50 | | | 100 |
| Dwn prog. Resp. time (Full Load) | mS | 15 | | 50 | | | 80 | | | | 100 | | 200 |
| Dwn prog. Resp. time (No Load) | mS | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1500 | 2000 | 2500 | 3000 |
| Transient response time | mS | Less than 1mSec for models up to and including 100V. 2msec for models above 100V | | | | | | | | | | | |
| **1.2 Constant Current Mode** | | | | | | | | | | | | | |
| Line Regulation | mA | 300 | 250 | 155 | 125 | 85 | 62.5 | 42.5 | 32.5 | 25 | 17 | 8.5 | 4.25 |
| Load Regulation | mA | 600 | 500 | 310 | 250 | 170 | 125 | 58 | 65 | 50 | 34 | 17 | 8.5 |
| Ripple and Noise rms (5Hz-1MHz) | mV | 1950 | 1800 | 1400 | 1000 | 460 | 300 | 150 | 120 | 100 | 90 | 30 | 15 |
| Temperature Coefficient | PPM/℃ | 100PPM/℃ of rated output voltage, Following 30 minutes warm-up | | | | | | | | | | | |
| **1.3 Display** | | | | | | | | | | | | | |
| Display - Voltage | | 4 digits, Accuracy:0.5% of rated output voltage ±1count | | | | | | | | | | | |
| Display - Current | | 4 digits, Accuracy:0.5% of rated output current ±1count | | | | | | | | | | | |
| 1.4 Analog programming and monitoring | | | | | | | | | | | | | |
| Vout Voltage Programming | | 0-100%, 0-5V or 0-10V, user select. Accuracy and linearity : ±0.5% of rated Vout. | | | | | | | | | | | |
| Iout Voltage Programming | | 0-100%, 0-5V or 0-10V, user select. Accuracy and linearity : ±1% of rated Iout. | | | | | | | | | | | |
| Vout Resistor Programming | | 0-100%, 0-5/10kohm full scales, user select. Accuracy and linearity :±1% of rated Vout. | | | | | | | | | | | |
| Iout Resistor Programming | | 0-100%, 0-5/10kohm full scales, user select. Accuracy and linearity : ±1.5% of rated Iout. | | | | | | | | | | | |
| On/Off control (rear panel) | | By electrical. Voltage : 0-0.6V/2-15V, or dry contact, user selectable logic | | | | | | | | | | | |
| Output Current monitor | | 0-5V or 0-10V, Accuracy : ±1%, user selectable. | | | | | | | | | | | |
| Output Voltage monitor | | 0-5V or 0-10V, Accuracy : ±1%, user selectable. | | | | | | | | | | | |
| Power Supply OK signal | | TTL high(4-5V) - OK, 0V-fail 500ohm series resistance. | | | | | | | | | | | |
| CV/CC indicator | | CV:TTL high(4-5V) source 10mA, CC:TTL low (0-0.6V), sink current : 10mA | | | | | | | | | | | |
| Enable/Disable | | Dry contact. Open:off, Short:on, Max.voltage at Enable/Disable in : 6V | | | | | | | | | | | |
| Local/Remote analog control | | By electrical signal or Open/Short:0-0.6V or short : Remote, 4-5V or open:Local. | | | | | | | | | | | |
| Local/Remote analog control indicator | | Open collector, Local:Off, Remote:Open. Maximum voltage:30V, Maximum sink current:10mA | | | | | | | | | | | |
| **1.5 Digital Programming and Readback** | | | | | | | | | | | | | |
| Accuracy of Vout programming | mV | 0.1% of Notminal output voltage | | | | | | | | | | | |
| Accuracy of Iout programming | mA | 0.1% of output current + 0.3% of Notminal current voltage | | | | | | | | | | | |
| Resolution of Vout programming | mV | 0.012% of Norminal current (Full-scale) | | | | | | | | | | | |
| Resolution of Iout programming | mA | 0.012% of Norminal current (Full-scale) | | | | | | | | | | | |
| Accuracy of Vout Readback | mV | 0.15% of Notminal output voltage | | | | | | | | | | | |
| Accuracy of Iout Readback | mA | 0.4% of Notminal current voltage | | | | | | | | | | | |
| Resolution of Vout Readback | mV | 0.012% of Norminal current (Full-scale) | | | | | | | | | | | |
| Resolution of Iout Readback | mA | 0.012% of Norminal current (Full-scale) | | | | | | | | | | | |
| **1.6 Environment Condition** | | | | | | | | | | | | | |
| Operating Temperature | | 0 - 50℃ | | | | | | | | | | | |
| Storage Temperature | | -30 - 85℃ | | | | | | | | | | | |
| Operating Humidity | | 20 - 90%RH (Non Condensing) | | | | | | | | | | | |
| Storage Humidity | | 10 - 95%RH (Non Condensing) | | | | | | | | | | | |
| **1.7 Safety and Mechanical Consrtuction** | | | | | | | | | | | | | |
| Cooling | | Forced air flow: From front to rear. No ventilation holes at the top or bottom of the chassis; Variable fan speed | | | | | | | | | | | |
| Weight | | 16kg | | | | | | | | | | | |
| Size (W x H x D) | | W:423mm, H:88mm, D:442mm (Excluding connectors, encoders, handles, etc.) | | | | | | | | | | | |
| Vibration & Shock (Non-op.) | | MIL-STD-810F, method 514.5, TheEUT is fixed to the vibrating surface / Lass than 20G, half sine, 11mSec. Unit is unpacked | | | | | | | | | | | |
| Safety Agency Approvals | | UL60950-1, EN60950-1. EN55024, CE Marking | | | | | | | | | | | |
| Withsatnd Voltage | | Input - Output : 4242VDC (1min), Input - FG : 2828VDC (1min) | | | | | | | | | | | |
| Isolation Resistance | | More than 100MΩ at 25℃ 70%RH, 500Vdc | | | | | | | | | | | |
| Conducted & Radiated EMI | | Conducted : EN55022A, FCC part 15-A, VCCI-A / Radiated : EN55022A,FCC part 15-A, VCCI-A | | | | | | | | | | | |
| Warranty | | 5 Years | | | | | | | | | | | |