**INPUT SPECIFICATIONS:**

- **VOLTAGE**: AC Input (176 - 264 VAC)
- **FREQUENCY**: 47-63Hz
- **INRUSH**: 20A @ 230VAC Full Load (Max Cold Start)
- **CURRENT**: 15A @ 230VAC (Max Continuous)
- **PROTECTION**: Single 25 A Fuse / 250V Rated
- **LEAKAGE**: 3.5mA @ 264VAC Max per Module
- **HOLD-UP**: 16ms minimum (230VAC, Full Load)
- **EFFICIENCY**: 90% typical @ 230VAC Full Load (48Vout)
- **HARMONICS**: EN61000-3-2 Class D Compliant (>0.98PF)

**OUTPUT SPECIFICATIONS:**

- **OUTPUT VOLTAGE**: -54V DC
- **OUTPUT CURRENT**: 100 Amps Max continuous
- **OUTPUT ADJUSTMENT**: -40V ~ -58V DC
- **LINE REGULATION**: ±0.5% max, across full input range
- **LOAD REGULATION**: ±0.5% max, across full load range
- **RIPPLE**: 200mV p-p, max (20MHz BW)
- **SETPOINT ACCURACY**: ±1%
- **EXCURSION**: ±5% max, 25% Step Load
- **RECOVERY**: 100ms max
- **OVER-CURRENT**: 105~130% (Auto-Recovery)
- **OV PROTECTION**: 59V ~ 60V DC

**PRODUCT FEATURES:**

- 54V 100A 19” Power Shelf
- DC Distribution through 6 Breakers
- Battery Charging & Management Circuitry
- Efficiency is >90%
- Active Current Share between Rectifier Modules
- N + 1 Redundant Rectifier Modules
- Power Factor Correction > 97%
- Full featured Alarm & Status
- Ethernet Interface
- RS232 & RS485 Serial Interfaces
- Front Panel LED Alarms
- Worldwide Safety & EMI Standards

**STATUS & CONTROL SPECIFICATIONS:**

- **CONTROL SIGNALS**: All referenced to Output GND terminals
- **AC ALARM**: If AC < 170V or > 280V AC
- **DC ALARM**: If DC < -46V or > -58V DC
- **CURRENT SHARE**: Single Wire ±10%
- **RACK TEMP FAIL**: If Rack Temp > 80C
- **BATTERY CHARGING**: See Users Manual
- **COMMUNICATIONS**: Ethernet/RS232/RS485

**GENERAL SPECIFICATIONS:**

- **OPERATING TEMPERATURE**: -20°C to +65°C
- **STORAGE TEMPERATURE**: -40°C to +85°C
- **OPERATING HUMIDITY**: 10% ~ 95% (non-condensing)
- **STORAGE HUMIDITY**: 5% ~ 95% (non-condensing)
- **COOLING**: Intelligent Fan Cooled Rectifier Modules
- **VIBRATION**: 10-55Hz, 2G, 3Min Period, 60 min each (3 axes)
- **SHOCK**: 20G Peak Acceleration
- **RELIABILITY**: > 100K Hours (per MIL STD 217F)
- **SIZE (INCHES)**: 19”x 17.7” x 8.74” (W x L x H)
- **WEIGHT**: 44.1 lbs

**REFERENCE:**

WWW.DONGAHUSA.COM

DongAh Elecomm USA
275 W. Campbell Road, Suite 320
Richardson TX 75080
Phone: (972) 497-9990
Fax: (972) 497-9991
sales@dongahusa.com

DongAh Elecomm Corp.
167 Namgok-ri, Yangi-myeon,
Yongin-si Kyunggi-do 449-820 Korea
Phone: 82-31-330-8805
Fax: 82-31-330-8889
sales@dongahelecomm.co.kr
OUTLINE DRAWING:

EMISSIONS:
- EMISSIONS: EN55022 Level A (Conducted)
- ELECTROSTATIC DISCHARGE: EN61000-4-2, 4kV Contact / 8kV Air
- RADIATED SUSCEPTIBILITY: EN61000-4-3, 26MHz-3000MHz, 10V/m, 80%AM
- EFT / BURSTS: EN61000-4-4, 2kV
- SURGES: EN61000-4-5, 2kV Earth, 1kV Line-Line
- CONDUCTED IMMUNITY: EN61000-4-6, 150kHz-80MHz, 10Vms, 80%AM
- VOLTAGE DIPS: EN61000-4-10, 95% Dip & 10ms, 30% Dip & 500ms
- VOLTAGE INTERRUPTIONS: EN61000-4-11, 95% reduction, 5ms
- FLUCTUATIONS & FLICKER: EN61000-3-3

SAFETY STANDARDS:
- UL / CUL: 60950-1
- CE MARK: Low Voltage Directive

Power Supply

EMISSIONS:
- EMISSIONS: EN55022 Level A (Conducted)
- ELECTROSTATIC DISCHARGE: EN61000-4-2, 4kV Contact / 8kV Air
- RADIATED SUSCEPTIBILITY: EN61000-4-3, 26MHz-3000MHz, 10V/m, 80%AM
- EFT / BURSTS: EN61000-4-4, 2kV
- SURGES: EN61000-4-5, 2kV Earth, 1kV Line-Line
- CONDUCTED IMMUNITY: EN61000-4-6, 150kHz-80MHz, 10Vms, 80%AM
- VOLTAGE DIPS: EN61000-4-10, 95% Dip & 10ms, 30% Dip & 500ms
- VOLTAGE INTERRUPTIONS: EN61000-4-11, 95% reduction, 5ms
- FLUCTUATIONS & FLICKER: EN61000-3-3

SWPR-4150C-M

ITE / EMBEDDED POWER SUPPLY

OUTLINE DRAWING:

EMISSIONS:
- EMISSIONS: EN55022 Level A (Conducted)
- ELECTROSTATIC DISCHARGE: EN61000-4-2, 4kV Contact / 8kV Air
- RADIATED SUSCEPTIBILITY: EN61000-4-3, 26MHz-3000MHz, 10V/m, 80%AM
- EFT / BURSTS: EN61000-4-4, 2kV
- SURGES: EN61000-4-5, 2kV Earth, 1kV Line-Line
- CONDUCTED IMMUNITY: EN61000-4-6, 150kHz-80MHz, 10Vms, 80%AM
- VOLTAGE DIPS: EN61000-4-10, 95% Dip & 10ms, 30% Dip & 500ms
- VOLTAGE INTERRUPTIONS: EN61000-4-11, 95% reduction, 5ms
- FLUCTUATIONS & FLICKER: EN61000-3-3

SAFETY STANDARDS:
- UL / CUL: 60950-1
- CE MARK: Low Voltage Directive

Power Supply

EMISSIONS:
- EMISSIONS: EN55022 Level A (Conducted)
- ELECTROSTATIC DISCHARGE: EN61000-4-2, 4kV Contact / 8kV Air
- RADIATED SUSCEPTIBILITY: EN61000-4-3, 26MHz-3000MHz, 10V/m, 80%AM
- EFT / BURSTS: EN61000-4-4, 2kV
- SURGES: EN61000-4-5, 2kV Earth, 1kV Line-Line
- CONDUCTED IMMUNITY: EN61000-4-6, 150kHz-80MHz, 10Vms, 80%AM
- VOLTAGE DIPS: EN61000-4-10, 95% Dip & 10ms, 30% Dip & 500ms
- VOLTAGE INTERRUPTIONS: EN61000-4-11, 95% reduction, 5ms
- FLUCTUATIONS & FLICKER: EN61000-3-3

SWPR-4150C-M

ITE / EMBEDDED POWER SUPPLY

OUTLINE DRAWING:

EMISSIONS:
- EMISSIONS: EN55022 Level A (Conducted)
- ELECTROSTATIC DISCHARGE: EN61000-4-2, 4kV Contact / 8kV Air
- RADIATED SUSCEPTIBILITY: EN61000-4-3, 26MHz-3000MHz, 10V/m, 80%AM
- EFT / BURSTS: EN61000-4-4, 2kV
- SURGES: EN61000-4-5, 2kV Earth, 1kV Line-Line
- CONDUCTED IMMUNITY: EN61000-4-6, 150kHz-80MHz, 10Vms, 80%AM
- VOLTAGE DIPS: EN61000-4-10, 95% Dip & 10ms, 30% Dip & 500ms
- VOLTAGE INTERRUPTIONS: EN61000-4-11, 95% reduction, 5ms
- FLUCTUATIONS & FLICKER: EN61000-3-3

SAFETY STANDARDS:
- UL / CUL: 60950-1
- CE MARK: Low Voltage Directive

Power Supply

EMISSIONS:
- EMISSIONS: EN55022 Level A (Conducted)
- ELECTROSTATIC DISCHARGE: EN61000-4-2, 4kV Contact / 8kV Air
- RADIATED SUSCEPTIBILITY: EN61000-4-3, 26MHz-3000MHz, 10V/m, 80%AM
- EFT / BURSTS: EN61000-4-4, 2kV
- SURGES: EN61000-4-5, 2kV Earth, 1kV Line-Line
- CONDUCTED IMMUNITY: EN61000-4-6, 150kHz-80MHz, 10Vms, 80%AM
- VOLTAGE DIPS: EN61000-4-10, 95% Dip & 10ms, 30% Dip & 500ms
- VOLTAGE INTERRUPTIONS: EN61000-4-11, 95% reduction, 5ms
- FLUCTUATIONS & FLICKER: EN61000-3-3

SWPR-4150C-M

ITE / EMBEDDED POWER SUPPLY

OUTLINE DRAWING: