NDRM-2115Y

PRODUCT FEATURES:
- Rectifier Module: 24Vdc @ 115A (2760W)
- Full Featured Status & Control Signals
  - AC OK & DC OK; Fan Fail alarm
  - RS485 Serial Interface
  - DSP Control Circuitry
- Current Shares w/other NDRM-2115Y modules
- Interfaces with IRPC Control Module in NDRM Shelf
- Front Panel LED Indicators (On, Standby, Fail)
- Meets Conducted and Radiated EMI, Class A
- International Safety Approvals including US, Canada, CENELEC countries, EN, and Korea

INPUT SPECIFICATIONS:
- VOLTAGE: Universal AC (90V ~ 264VAC)
- FREQUENCY: 47~63 Hz
- INRUSH: 30A @ 220VAC (typical, Full Load)
- CURRENT: 17.5A max, Continuous (220 VAC)
- PROTECTION: Fuses in both AC-L & AC-N (20A each)
- LEAKAGE: 3.5mA Max @ 220 VAC
- HOLD-UP: 16ms minimum (115VAC, Full Load)
- EFFICIENCY: 92.5% (typical, 30~60% load)
- POWER FACTOR: 98% @ ≥50% Load

OUTPUT SPECIFICATIONS:
- OUTPUT VOLTAGE: 24VDC
- OUTPUT CURRENT: 115A maximum
- ADJUSTMENT RANGE: 22.0~27.0 Vdc
- LINE REGULATION: ±0.5% max, across full input range
- LOAD REGULATION: ±2% max, across full load range
- TEMP REGULATION: ±2% max
- OVERALL REGULATION: ±5% max
- RIPPLE (p-p; maximum): ≤300mV p-p; (20MHz BW)
- SETPOINT ACCURACY: ±0.5%
- OVER-CURRENT: 125A max then Foldback with Auto-Recovery
- OVP PROTECTION: 27.5Vdc (Recycle Acin to reset); Power Derated, Thermal Shutdown

SAFETY STANDARDS:
- cULus UL 60950-1 and CAN/CSA C22.2 No. 60950-1-07
- CE MARK Complies to Low Voltage Directive 2014/35/EU
- CB REPORT with National Differences for CENELEC, EN, Korea

FEATURES:
- DEBUG/Configuration Requires IRPC Control Module in NDRM Shelf with IRPS DEBUG GUI

GENERAL SPECIFICATIONS:
- OPERATING TEMPERATURE: -40 to +75°C (derate 2.0%/°C above 50°C)
- STORAGE TEMPERATURE: -40°C to +85°C
- OPERATING HUMIDITY: 0% ~ 95% (non-condensing)
- STORAGE HUMIDITY: 5% ~ 95% (non-condensing)
- COOLING: Internal Fan (pulls air front-to-back)
- VIBRATION: 10-55Hz, 2G, 3Min Period, 60 min each (3 axes)
- SHOCK: 20G Peak Acceleration
- RELIABILITY: >350,000 Hours MTBF (25°C Ambient)
- SIZE (mmXwxD): 122mm x 85mm x 405.5mm (4.8in. X 3.35in. X 15.97in.)
- WITHSTAND VOLTAGE: I-O: 3KV (10mA, 1min); Input-FG: 1.5KV (10mA, 1min)
- ISOLATION RESISTANCE: I-O and Input-FG: 500Vdc, 100Mohm (1min)

EMISSIONS:
- EMISSIONS (RE and CE) EN55022 Level A (RE and CE)
- ELECTROSTATIC DISCHARGE EN61000-4-2, 4KV Contact/ 8KV Air
- RADIATED SUSCEPTIBILITY EN61000-4-3, 26MHz-2000MHZ, 10V/m, 80%AM
- ELECTROMAGNETIC BURSTS EN61000-4-4, 2KV
- ScaRES EN61000-4-5, 2KV Earth, 1KV Line-Line
- CONDUCTED IMMUNITY EN61000-4-6, 150KHz-800MHz, 10Vrms, 80%AM
- VOLTAGE DIPS EN61000-4-11, 30% Dip,10ms / 60% Dip,100ms
- VOLTAGE INTERRUPtIONS EN61000-4-11, 100% reduction, 5ms
- HARMONIC CUR. EMISSIONS EN61000-3-2
- FLUCTUATIONS & FlickER EN61000-3-3
HOT-SWAP / REDUNDANT RECTIFIER MODULE

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**AC Input:**

- Voltage range: 85Vac ~ 296Vac
- Constant power range (Max 2.76KW): 176Vac ~ 296Vac
- Shut-down Voltage:
  - OVP: 297Vac (recovery 285Vac)
  - UVP: 77Vac (recovery 85Vac)

**DC Output:**

- Voltage range: 22.0Vdc ~ 27.0Vdc
- Constant power range (Max 2.76KW): 22.0Vdc ~ 27.0Vdc

**Temperature:**

- Operating temperature: -40°C ~ 75°C
- Constant power range (Max 2.76KW): -40°C ~ 50°C
- Shut-down Temperature (Tolerance: ±5°C):
  - 75°C (recovery 65°C)
  - -40°C (recovery -35°C)