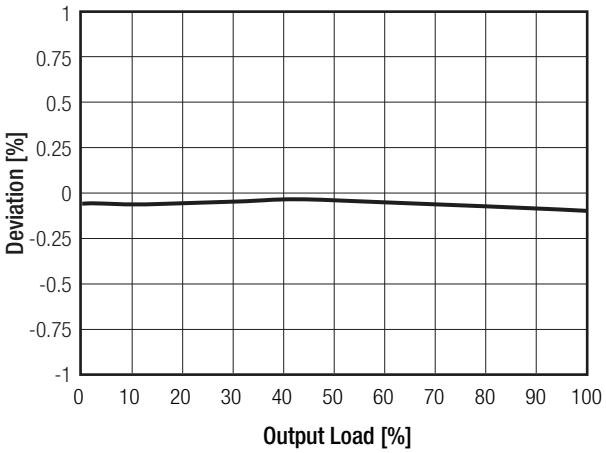
## Specifications (measured @ Ta= 25°C, 230VAC, full load and after warm-up)

### REGULATIONS

| Parameter | Condition | Value |
|---|---|---|
| Output Accuracy | 230VAC, full load | ±1.0% |
| Line Regulation | low line to high line, full load | ±0.2% |
| Load Regulation | 0% to 100% load | 0.1% typ. / 0.5% max. |
| Transient Peak Deviation | load step from 50% - 75% change at 2.5A/µs | 3.0% Vout max. |
| Transient Recovery Time | load step from 50% - 75% change at 2.5A/µs | 500µs typ. |

**Deviation vs. Load**




### PROTECTIONS

| Parameter | Condition | | Value |
|---|---|---|---|
| Input Fuse | internal line and neutral | | T3.15A / 250VAC, slow blow type |
| Short Circuit Protection (SCP) | | | continuous, auto-recovery |
| Over Load Protection (OLP) | % of Iout rated (Hiccup) | | 115% min. / 150% max. |
| Over Voltage Protection (OVP) | % of Vout nominal (Latch off) | | 115% min. / 135% max. |
| Isolation Voltage [5] | tested for 1 minute | I/P to O/P<br>I/P to Case<br>O/P to Case | 4kVAC<br>2kVAC<br>2kVAC |
| Isolation Resistance | 500VDC | | 100MΩ min. |
| Insulation Grade | | | reinforced |
| Leakage Current | 264VAC | | 100µA max. |
| Means of Protection | working voltage 250VAC/continuous | | 2MOPP |
| Medical Device Classification | | | built-in power supply |
| Internal | clearance<br>creepage | | >8.0mm<br>>8.0mm |

**Notes:**

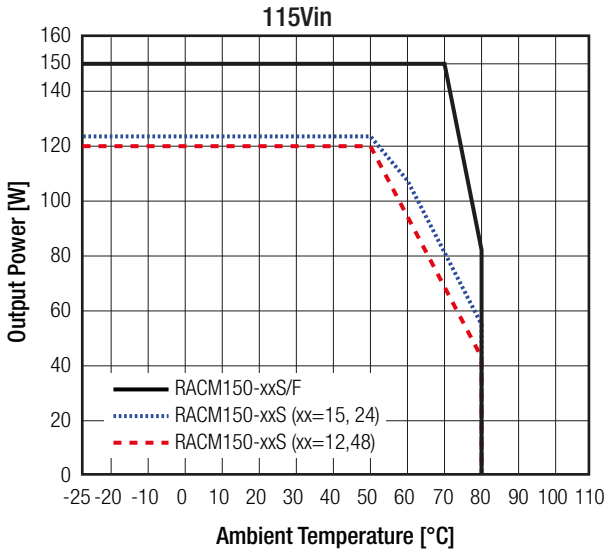
Note5: For repeat Hi-Pot testing, reduce the time and/or the test voltage

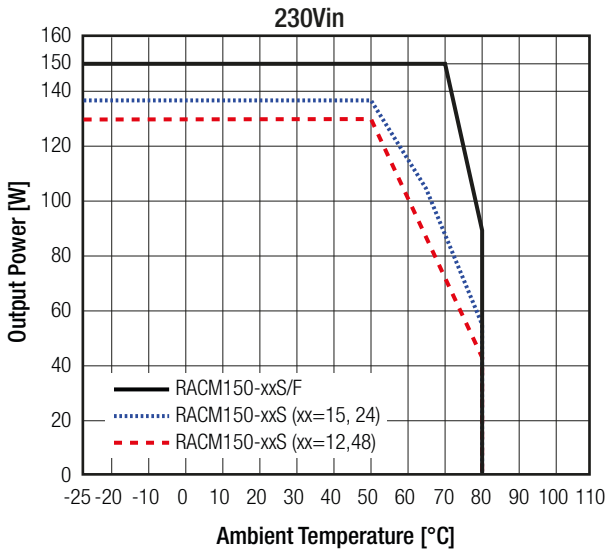
## Specifications (measured @ Ta= 25°C, 230VAC, full load and after warm-up)

| ENVIRONMENTAL | | | |
|---|---|---|---|
| **Parameter** | **Condition** | | **Value** |
| | refert to derating graph | without fan<br>with fan | -25°C to +80°C<br>-25°C to +80°C |
| Temperature Coefficient | | | ±0.02%/K |
| Operating Altitude | | | 5000m max. |
| Operating Humidity | non-condensing | | 5% to 95% RH |
| Pollution Degree | | | PD2 |
| MTBF | according to MIL-HDBK-217F, full load, +25°C | | 786.1 x $10^3$ hours |

### Derating Graph

(@ Chamber and natural convection 0.1m/s)




| SAFETY AND CERTIFICATIONS | | |
|---|---|---|
| **Certificate Type (Safety)** | **Report / File Number** | **Standard** |
| Medical Electric Equipment, General Requirements for Safety and Essential Performance | E314885 | CAN/CSA-C22.2 No. 60601-1:14<br>ANSI/AAMI ES60601-1:2005 + A2:2010 |
| Medical Electric Equipment, General Requirements for Safety and Essential Performance (CB Scheme) | 1408016004 | IEC60601-1:2005 + C2:2007, 3rd Edition<br>EN60601-1:2006 |
| Information Technology Equipment - General Requirements for Safety (LVD) | TW1708008-001 | EN60950-1:2006 + A2:2013 |
| Information Technology Equipment - General Requirements for Safety | | IEC60950-1:2005, 2nd Edition + A2:2013 |
| EAC | RU-AT.49.09571 | TP TC 004/2011 TP TC 004/2011 |
| RoHs2+ | | RoHS-2011/65/EU + AM-2015/863 |

| EMC Compliance (Medical) | Conditions | Standard / Criterion |
|---|---|---|
| Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests | | EN60601-1-2:2015 |
| Industrial, scientific and medical equipment – Radio frequency disturbance characteristics – Limits and methods of measurement | | EN55011:2009 + A1:2010<br>Class B Conducted, Class A Radiated |
| Industrial, scientific and medical equipment - Radio frequency disturbance characteritics - Limits and methods of measurement | | CISPR11:2009 + A1:2010<br>Class B Conducted, Class A Radiated |

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