# Specifications

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| AC Input | |
| Input Voltage, nominal | 85Vac to 275Vac/120-300Vdc |
| Power Factor at Full Load | 0.99 / 0.95 at 115Vac/230Vac and meet EN61000-3-2 (Class A) |
| Frequency | 47Hz to 63Hz |
| Input Current | 6A max @ 115Vac / 3A max @ 230Vac |
| Inrush Current | 50A max |
| Main Power Output | |
| Output Power | 600W. Derate linearly from 90Vac to 85Vac with 90% load. |
| Output Voltage, nominal | 12VDC |
| Output Current, maximum | 50A |
| Line Regulation | 0.5% |
| Load Regulation | 1.0% |
| Voltage Adjustment | 5% |
| Ripple and Noise | 120mVp-p typical |
| Efficiency | 95% (>92% at full load) @230VAC |
| No Load Power | Less than 1500mW at 230Vac (Remote off and no load on 5Vsb) |
| Hold-up time | Min 14ms |
| Protection | |
| Short Circuit | Continuous, Automatic Recovery |
| Over Current | 115% - 150%, Automatic Recovery |
| Over Voltage | 115% - 135%, Latched |
| Over Temperature | Automatic Recovery |
| Mechanical | |
| Dimensions | 5.0” x 3.0” x 1.45” for open frame and 6.5”x3.5”x1.65” with fan |
| Weight | TBD |
| Environmental | |
| Vibration | IEC 60068-2-6 |
| Mechanical Shock | IEC 60068-2-27 |
| Operating Temperature | -20C°C to +70°C (with forced air cooling)  Derate linearly from 50°C to 70°C with 50% load |
| Storage Temperature | -40°C to +85°C |
| Humidity | 95% max (non-condensing) |
| Altitude | 5000m max |
| Safety Approvals | |
| IT/Multimedia Equipment | EN/IEC/UL 62368 |
| Medical | EN/IEC/ANSI/AAMI ES 60601-1 (2 x MOPP) |
| EMC | |
| Conducted Emission | EN 55011/EN 55032 Class B |
| Radiated Emission | EN 55011/EN 55032 Class B |
| Harmonic Current | EN 61000-3-2 Class A |
| Voltage Fluctuations & Flicker | EN 61000-3-3 |
| Electrostatic Discharge | EN 61000-4-2 Air: ±15kV, Criteria A; Contact: ±8kV, Criteria A |
| RF Electromagnetic Filed | EN 61000-4-3 10V/m, Criteria A |
| EFT | EN 61000-4-4 ±4kV, Criteria A |
| Surge | EN 61000-4-5 L to L: ±2kV, Criteria A; L to PE: ±4kV, Criteria A |
| Conducted RF Disturbances | EN 61000-4-6 10Vrms, Criteria A |
| PF Magnetic Field | EN 61000-4-8 10A/m, Criteria A |
| Voltage Dips & | EN 61000-4-11, 30%, 500 ms, Criteria A |
| Input Interruptions | EN 61000-4-11, 60%, 100 ms, Criteria B |
|  | EN 61000-4-11,100%, 10 ms, Criteria A |
|  | EN 60601-1-2, 30%, 500 ms, Criteria A |
|  | EN 60601-1-2, 60%, 100 ms, Criteria B |
|  | EN 60601-1-2, 100%, 10 ms, Criteria A |
|  | EN 60601-1-2, 100%, 5000 ms, Criteria B |
| General | |
| Approvals | EN/IEC/UL 62368, EN/IEC/ANSI 60601 |
| Leakage Current | Less than 300uA |
| Touch Current | Less than 100uA |
| Reliability (Calculated MTBF) | >500k Hours |
| Other features | |
| Standby 5V output with 2A maximum current | |
| PMBus™ for control and monitoring | |
| OR-ing with active current sharing | |
| Power Good output signal | |
| Remote On/Off input signal | |
| Remote sensing | |

# Sponsor Acceptance

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| --- | --- |
| Project Sponsor Name: | Kum Yoong Zee |
| Project Sponsor Signature: |  |
| Date: |  |