

| MODEL:UHR-30184 | DC-DC CONVERTER PRODUCT SPECIFICATIONS | | | | |
|---------------------------------------|--|-------------|-------|----------|------|
| 7.16.96 | MODEL:UHR-5/4000-D12 | | | | |
| INPUT: | MIN | TYP. | MAX. | UNITS | TEST |
| VOLTAGE RANGE: | 9.00 | 12.00\24.00 | 36.00 | V | 100% |
| FILTER TYPE: | L-TYPE | | | | GBD |
| BACK RIPPLE CURRENT: | | TBD | | mA | GBD |
| NO LOAD CURRENT: | | 25.0 | 35.0 | mA | 100% |
| Measured at 24V input | | | | | |
| FULL LOAD CURRENT @12Vin: | | 2.083 | 2.158 | A | GBD |
| FULL LOAD CURRENT @24Vin: | | 1.029 | 1.060 | A | 100% |
| EFFICIENCY AT F. LOAD @12Vin: | 78.0 | 80.0 | | % | GBD |
| EFFICIENCY AT F.LOAD @24Vin: | 79.4 | 81.0 | | % | 100% |
| OVERVOLTAGE SHUTDOWN: | | N/A | | VDC | 100% |
| OUTPUT: | | | | | |
| VOLTAGE: | 4.950 | 5.000 | 5.050 | VDC | 100% |
| CURRENT RANGE: | 0.80 | 4.00 | 4.00 | A | 100% |
| VOLTAGE SETTING ACCURACY: | within 1% of 5.00 | | | | |
| Measured at 24Vin , 2A load | | | | | 100% |
| LINE REGULATION @ Max LOAD: | | | ±0.30 | % | 100% |
| The same measured as slope | | | 0.60 | % | 100% |
| LOAD REGULATION @ 24Vin: | | | ±0.5 | % | 100% |
| The same measured as slope | | | 1.00 | % | 100% |
| TEMPERATURE COEFFICIENT: | | 0.02 | | %/°C | GBD |
| OVER-VOLTAGE PROTECTION: | 5.6 | 6.8 | 7.1 | V | GBD |
| Voltage Clamp (TRANSZORB) | | | | | |
| RIPPLE/NOISE: | | 50 | 100 | mV Pk/Pk | 100% |
| At 20MHZ bandwidth | | | | | |
| CURRENT LIMIT INCEPTION: | | | | | |
| (At .98Vout, 24V input) | 5.00 | 5.50 | 6.00 | A | 100% |
| SHORT CIRCUIT CURRENT: | | 10.0 | | A | 100% |
| Vo Recovery Test Only, 24 Vin | | | | | |
| DYNAMIC LOAD RESPONCE: | | | | | |
| RECOVERY TIME WITHIN 1.5% Vo: | | 100 | 200 | µSec | 100% |
| Load change from 2A to 4A, Vin=24v | | | | | |
| OUTPUT VOLTAGE ADJUSTMENT RANG | 4.75 to 5.25v or greater | | | | |

