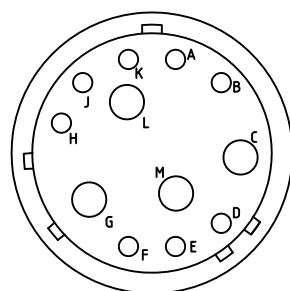


ELECTRICAL CONNECTIONS

| PIN | DESCRIPTION | ADDITIONAL INFORMATION |
|-----|--------------------|------------------------|
| A | N/A | RESERVED |
| B | N/C | RESERVED |
| C | 28 V I/P | AIRCRAFT SUPPLY (+28V) |
| D | PRIMARY STATUS O/P | OV=NORM, O/C=FAIL |
| E | N/C | RESERVED |
| F | SHUTDOWN I/P | OV=SHUTDOWN, O/C=NORM |
| G | 0V I/P | AIRCRAFT SUPPLY (0V) |
| H | N/C | RESERVED |
| J | +V O/P CH2 | DC OUTPUT (AUXILIARY) |
| K | -V O/P CH2 | GND (AUXILIARY) |
| L | +V O/P CH1 | DC OUTPUT (PRIMARY) |
| M | -V O/P CH1 | GND (PRIMARY) |



NOTES

CONNECTIONS TO PINS C,G,L,M MUST HAVE A MINIMUM CURRENT CAPACITY OF 10.0 AMPS

CONNECTIONS TO PINS J & K MUST HAVE A MINIMUM CURRENT CAPACITY OF 3.5 AMPS

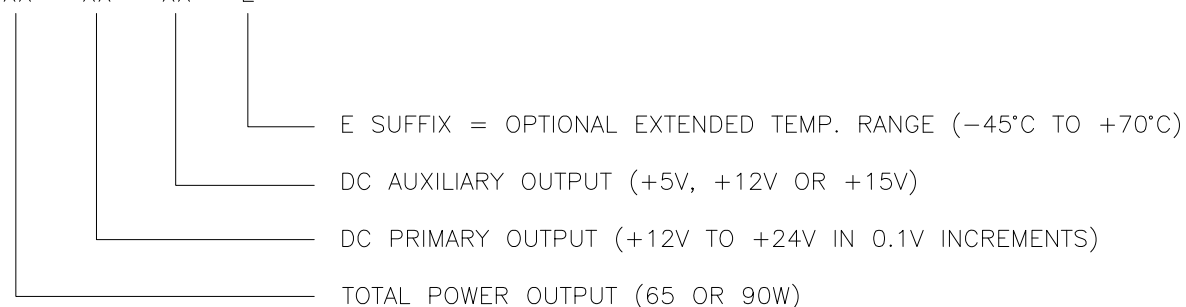
STATUS OUTPUT AND SHUTDOWN I/P WITH REFERENCE TO AIRCRAFT GROUND ON PIN G

+28V DC POWER TO BE SUPPLIED ON PIN C, WITH AIRCRAFT GROUND ON PIN G

RECOMMENDED CIRCUIT BREAKER RATING 10A

PART NUMBER DESIGNATION

DAQPOWER-XX XX XX E



ELECTRICAL SPECIFICATION – INPUT

| | |
|---------------------|---|
| INPUT VOLTAGE RANGE | 18–36VDC |
| INPUT POWER | <5W TYP. (NO LOAD) 105W MAX (FULL LOAD, 90W VARIANT) |

ELECTRICAL SPECIFICATION – OUTPUT 1 (PRIMARY – 50W OR 75W)

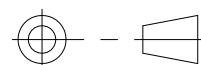
| | |
|--------------------------|---|
| OUTPUT POWER | 50W OR 75W MAX |
| VOLTAGE SET ACCURACY | ±1% |
| VOLTAGE REGULATION | 0.1% MAX (0%–100% LOAD VARIATION) 0.1% MAX (18 TO 36V INPUT VARIATION) |
| MINIMUM LOAD | NOT REQUIRED |
| RIPPLE & NOISE* | 100mV PK–PK MAX |
| START UP TIME | 25ms TYP. |
| START UP VOLTAGE | DEPENDS UPON OUTPUT RATING |
| TRANSIENT RESPONSE | 200us TYP. (25% STEP LOAD CHANGE) |
| OUTPUT CURRENT LIMIT | 110% TO 160% OF MAX LOAD |
| OVER VOLTAGE PROTECTION | 115% to 140% OF SET VOLTAGE |
| SHORT CIRCUIT PROTECTION | INDEFINITE, AUTOMATIC RECOVERY |
| CAPACITIVE LOAD | DEPENDS UPON OUTPUT VOLTAGE |
| DERATING (E SUFFIX ONLY) | -10% @ 70°C (FREE AIR CONVECTION) 0% @ 70°C (200LFM FORCED COOLING) |
| OVER TEMPERATURE CUTOUT | 105°C |
| SWITCHING FREQUENCY | 300kHz TYP. PULSE WIDTH MODULATION |
| STATUS TRIP THRESHOLD | ±2% OF NOMINAL VALUE |

ELECTRICAL SPECIFICATION – OUTPUT 2 (AUXILIARY 15W)

| | |
|--------------------------|---|
| OUTPUT POWER | 15W MAX |
| VOLTAGE SET ACCURACY | ±1% |
| VOLTAGE REGULATION | 0.2% MAX (0%–100% LOAD VARIATION) 0.2% MAX (18 TO 36V INPUT VARIATION) |
| MINIMUM LOAD | NOT REQUIRED |
| RIPPLE & NOISE* | 100mV PK–PK MAX |
| START UP TIME | DEPENDS UPON OUTPUT RATING |
| START UP VOLTAGE | DEPENDS UPON OUTPUT RATING |
| TRANSIENT RESPONSE | 250us TYP. (25% STEP LOAD CHANGE) |
| OUTPUT CURRENT LIMIT | 120% TO 150% OF MAX LOAD |
| OVER VOLTAGE PROTECTION | 110% to 160% OF SET VOLTAGE |
| SHORT CIRCUIT PROTECTION | INDEFINITE, AUTOMATIC RECOVERY |
| CAPACITIVE LOAD | DEPENDS UPON OUTPUT VOLTAGE |
| DERATING (E SUFFIX ONLY) | -10% @ 70°C (FREE AIR CONVECTION) 0% @ 70°C (200LFM FORCED COOLING) |
| OVER TEMPERATURE CUTOUT | 105°C |
| SWITCHING FREQUENCY | 400kHz TYP. PULSE WIDTH MODULATION |

*20MHz BANDWIDTH MEASUREMENT

THIRD ANGLE PROJECTION TO B.S. 8888.
FOR GENERAL TOLERANCES & FINISHES
SEE NGINIVITY STANDARD NCP001.



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IF IN DOUBT ASK

CAUTION– THIS DRAWING MAY NOT HAVE BEEN PRINTED FULL SIZE

| | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|--|------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------------|
| APPROVED CHECKED NSK | MATERIAL:– PRINCIPALLY ALUMINIUM ALLOY TO BS1470/1474 6082–T6 | FINISH:– ALOCROM 1200 + INTERNATIONAL ORANGE PAINT | TOLERANCES | ISSUE 1 | | | | | | | | | | | | | | | |
| | | | | DATE 12.11.13 | | | | | | | | | | | | | | | |
| DRAWN PDC | | | SCALE: 1:1 DIMS: MM | TITLE DAQPOWER™ – DUAL OUTPUT POWER CONVERTER MODULE | DRAWING NUMBER DAQPOWER–XXXXXX SHEET 2 OF 2 | | | | | | | | | | | | | | SIZE A2 |