









# UBC-Experimental Cosmology Lab

## BILL OF MATERIAL

**BOM Parent** 002388  
**Description** Linear Open Frame PSU Version 2 - Complete  
**Category** MEC  
**Revision** Rev B                      **BOM Type** BOM  
**Run Size** 1                              **UM**              **EA**











| components   |                    | tot qty (+ovg) |       |   |             |              |
|--|--------------------|----------------|-------|---|-------------|--------------|
| component ID / description   | UM                 | usage          | ovg % | image   | seq / line# |              |
| 1 002373<br>Open Frame Linear Power Supply 5V @ 6A   | 1<br>EA            | 1              |       |    | 02-3000     | 10           |
| <b>SUPPLIERS</b> supplier part no.   |                    |                |       |   |             |              |
| ● Mouser Electronics   | 597-C5-6/P         |                |       |   |             |              |
| 1 002374<br>Open Frame Linear Power Supply 5V @ 3A   | 2<br>EA            | 2              |       |    | 02-3000     | 20           |
| <b>SUPPLIERS</b> supplier part no.   |                    |                |       |   |             |              |
| ● Mouser Electronics   | 597-B5-3/P         |                |       |   |             |              |
| 1 002375<br>Open Frame Linear Power Supply 12V @ 0.5A  | 1<br>EA            | 1              |       |    | 02-3000     | 30           |
| <b>SUPPLIERS</b> supplier part no.   |                    |                |       |   |             |              |
| ● Mouser Electronics   | 597-A15-0.5        |                |       |   |             |              |
| 1 002376<br>Open Frame Linear Power Supply 5V @ 18A  | 1<br>EA            | 1              |       |   | 02-3000     | 40           |
| <b>SUPPLIERS</b> supplier part no.   |                    |                |       |   |             |              |
| ● Mouser Electronics   | 597-E5-18/P        |                |       |   |             |              |
| 1 002379 (Rev B)<br>3u x 11.5" Deep 19" Rack Mount Chassis -Open Frame PSU<br><i>Par-Metal Chassis 12-19125-S - machined for job</i> | 1<br>EA            | 1              |       |  | 01-2000     | 50           |
| <b>ALTERNATES</b> description                      UM                      ratio (n : 1)   |                    |                |       |   |             |              |
| ●  |                    |                |       |   |             |              |
| 2 002454<br>3u x 11.5" Deep 19" Rack Mount Chassis   | 1<br>EA            | 1              |       |  | 01-2000     | 10           |
| <b>SUPPLIERS</b> supplier part no.   |                    |                |       |   |             |              |
| ● Par-Metal  | 12-19125S          |                |       |   |             |              |
| 2 002386<br>Linear Open Frame PSU Chassis Front Sub Panel  | 1<br>EA            | 1              |       |  |             | 20<br>OUTPUT |
| <b>ALTERNATES</b> description                      UM                      ratio (n : 1)   |                    |                |       |   |             |              |
| ●  |                    |                |       |   |             |              |
| <b>SUPPLIERS</b> supplier part no.   |                    |                |       |   |             |              |
| ● Par-Metal  | Part of 12-19123-S |                |       |   |             |              |
| 2 002387<br>Linear Open Frame PSU Chassis Rear Panel   | 1<br>EA            | 1              |       |  |             | 30<br>OUTPUT |
| <b>SUPPLIERS</b> supplier part no.   |                    |                |       |   |             |              |
| ● Par-Metal  | Part of 12-19123-S |                |       |   |             |              |

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



| components   |    | tot qty (+ovg)     |       |   |             |  |
|--|----|--------------------|-------|---|-------------|--|
| component ID / description                         | UM | usage              | ovg % | image   | seq / line# |  |
| 2 002405   | 1  | 1                  |       |    | 40          |  |
| Linear Open Frame PSU Chassis Right Side Panel     |    |                    |       |   |             |  |
|  |    | EA                 |       |   | OUTPUT      |  |
| <b>ALTERNATES</b>                                  |    | description        | UM    | ratio (n : 1)   |             |  |
| ●  |    |                    |       |   |             |  |
| <b>SUPPLIERS</b>                                   |    | supplier part no.  |       |   |             |  |
| ● Par-Metal  |    | Part of 12-19123-S |       |   |             |  |
| 2 002406   | 1  | 1                  |       |    | 50          |  |
| Linear Open Frame PSU Chassis Left Side Panel      |    |                    |       |   |             |  |
|  |    | EA                 |       |   | OUTPUT      |  |
| <b>SUPPLIERS</b>                                   |    | supplier part no.  |       |   |             |  |
| ● Par-Metal  |    | Part of 12-19123-S |       |   |             |  |
| 2 002407   | 1  | 1                  |       |    | 100         |  |
| PSU Front Panel for Open Frame Linear Power Supply |    |                    |       |   |             |  |
|  |    | EA                 |       |   | OUTPUT      |  |
| 1 002380   | 1  | 1                  |       |    | 02-3000 60  |  |
| Linear Open Frame PSU Chassis Bottom Panel         |    |                    |       |   |             |  |
|  |    | EA                 |       |   |             |  |
| <b>SUPPLIERS</b>                                   |    | supplier part no.  |       |   |             |  |
| ● Par-Metal  |    | 002380             |       |   |             |  |
| 1 000824   | 1  | 1                  |       |  | 02-3000 120 |  |
| FUSEHOLDER 1/4" 15A 250V QC PNL                    |    |                    |       |   |             |  |
|  |    | EA                 |       |   |             |  |
| <b>SUPPLIERS</b>                                   |    | supplier part no.  |       |   |             |  |
| ● Digi-Key   |    | 283-2849-ND        |       |   |             |  |
| 1 002390   | 1  | 1                  |       |  | 02-3000 130 |  |
| Modular Entry 120VAC Line Filter 10 Amp            |    |                    |       |   |             |  |
|  |    | EA                 |       |   |             |  |
| <b>SUPPLIERS</b>                                   |    | supplier part no.  |       |   |             |  |
| ● Digi-Key   |    | CCM1223-ND         |       |   |             |  |
| 1 001172   | 1  | 1                  |       |  | 02-3000 140 |  |
| SPDT Toggle Switch Panel Mount                     |    |                    |       |   |             |  |
|  |    | EA                 |       |   |             |  |
| <b>SUPPLIERS</b>                                   |    | supplier part no.  |       |   |             |  |
| ● Digi-Key   |    | 450-1313-ND        |       |   |             |  |
| 1 000834   | 1  | 1                  |       |  | 02-3000 150 |  |
| 5mm Green LED with Housing                         |    |                    |       |   |             |  |
|  |    | EA                 |       |   |             |  |
| 1 001083   | 1  | 1                  |       |  | 02-3000 160 |  |
| 1k0 1/4W 1% Metal film axial resistor              |    |                    |       |   |             |  |
|  |    | EA                 |       |   |             |  |
| 1 002441   | 1  | 1                  |       |  | 02-3000 180 |  |
| Fan 120VAC 107CFM 120x120x39mm                     |    |                    |       |   |             |  |
|  |    | EA                 |       |   |             |  |
| <b>SUPPLIERS</b>                                   |    | supplier part no.  |       |   |             |  |
| ● Digi-Key   |    | 259-1387-ND        |       |   |             |  |

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| components   |         | tot qty (+ovg)    |       |   |             |     |
|--|---------|-------------------|-------|---|-------------|-----|
| component ID / description   | UM      | usage             | ovg % | image   | seq / line# |     |
| 1 001170<br>Fan Finger Guard for 120x120mm Fan                         | 1<br>EA | 1                 |       |    | 02-3000     | 190 |
| <b>SUPPLIERS</b>   |         | supplier part no. |       |   |             |     |
| ● Digi-Key   |         | CR178-ND          |       |   |             |     |
| 1 002349<br>Winchester 34 Socket Connector with Jack Sockets           | 1<br>EA | 1                 |       |    | 02-3000     | 200 |
| <b>SUPPLIERS</b>   |         | supplier part no. |       |   |             |     |
| ● CPN Electronics  |         | MRA34SJ           |       |   |             |     |
| 1 001063<br>Stick On Rubber Feet 0.8x0.8x0.3 inches                    | 4<br>EA | 4                 |       |    | 02-3000     | 210 |
| <b>SUPPLIERS</b>   |         | supplier part no. |       |   |             |     |
| ● Digi-Key   |         | SJ5523-0-ND       |       |   |             |     |
| 1 002407 (Rev A)<br>PSU Front Panel for Open Frame Linear Power Supply | 1<br>EA | 1                 |       |   | 02-3000     | 220 |
| 1 002459<br>2 cct 20A BarrierTerminal Strip Panel Mount                | 1<br>EA | 1                 |       |  | 02-3000     | 230 |
| <b>SUPPLIERS</b>   |         | supplier part no. |       |   |             |     |
| ● Digi-Key   |         | CBB202-ND         |       |   |             |     |
| 1 002463<br>2 cct BarrierTerminal Marking Strip                        | 1<br>EA | 1                 |       |  | 02-3000     | 240 |
| <b>SUPPLIERS</b>   |         | supplier part no. |       |   |             |     |
| ● Digi-Key   |         | 002463            |       |   |             |     |
| 1 002050<br>16 AWG, PVC White, Stranded Hook-up wire                   | 1<br>FT | 1                 |       |  | 02-3000     | 250 |
| <b>SUPPLIERS</b>   |         | supplier part no. |       |   |             |     |
| ● Digi-Key   |         | A2065W-100-ND     |       |   |             |     |
| 1 002455<br>16 AWG, PVC Red, Stranded Hook-up wire                     | 6<br>FT | 6                 |       |  | 02-3000     | 260 |
| <b>SUPPLIERS</b>   |         | supplier part no. |       |   |             |     |
| ● Digi-Key   |         | A2065R-100-ND     |       |   |             |     |
| 1 002456<br>16 AWG, PVC Blue, Stranded Hook-up wire                    | 2<br>FT | 2                 |       |  | 02-3000     | 270 |
| <b>SUPPLIERS</b>   |         | supplier part no. |       |   |             |     |
| ● Digi-Key   |         | A2065L-100-ND     |       |   |             |     |

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|--|------------------|----------------|-------|---|-------------|-----|
| component ID / description   | UM               | usage          | ovg % | image   | seq / line# |     |
| 1 002457<br>16 AWG, PVC Gray, Stranded Hook-up wire  | 2<br>FT          | 2              |       |    | 02-3000     | 280 |
| <b>SUPPLIERS</b> supplier part no.   |                  |                |       |   |             |     |
| ● Digi-Key   | 3057 SL005       |                |       |   |             |     |
| 1 002458<br>16 AWG, PVC Yellow, Stranded Hook-up wire  | 10<br>FT         | 10             |       |    | 02-3000     | 290 |
| <b>SUPPLIERS</b> supplier part no.   |                  |                |       |   |             |     |
| ● Digi-Key   | A2065Y-100-ND    |                |       |   |             |     |
| 1 001333<br>16 AWG, PVC Black, Stranded Hook-up wire   | 36<br>FT         | 36             |       |    | 02-3000     | 300 |
| <b>SUPPLIERS</b> supplier part no.   |                  |                |       |   |             |     |
| ● Mouser Electronics   | 602-3057-1000-02 |                |       |   |             |     |
| 1 002481<br>Fuse 10A 250V Slo Blow Type 3AG  | 1<br>EA          | 1              |       |   | 02-3000     | 310 |
| <b>SUPPLIERS</b> supplier part no.   |                  |                |       |   |             |     |
| ● Digi-Key   | F2647-ND         |                |       |   |             |     |
| 1 002491<br>3k65 1/4W 1% Metal film axial resistor<br><i>Use to replace component R2 on IHA 15-0.5 +Vah Supply MCE# 002375</i>   | 1<br>EA          | 1              |       |  | 02-3000     | 320 |
| <b>SUPPLIERS</b> supplier part no.   |                  |                |       |   |             |     |
| ● Digi-Key   | 3.65KXBK-ND      |                |       |   |             |     |
| 1 000918<br>475R 1/4W 1% Metal film axial resistor<br><i>Use to replace component R8 on IHA 15-0.5 +Vah Supply MCE# 002375</i>   | 1<br>EA          | 1              |       |  | 02-3000     | 330 |
| 1 002492<br>8k25 1/4W 1% Metal film axial resistor<br><i>Use to replace component R8 on IHB5-3/OVP -Va Supply MCE# 002374</i><br><i>Use to replace component R13 on IHE5-18/OVP +Va Supply MCE# 002376</i> | 2<br>EA          | 2              |       |  | 02-3000     | 340 |
| <b>SUPPLIERS</b> supplier part no.   |                  |                |       |   |             |     |
| ● Digi-Key   | 8.25KXTR-ND      |                |       |   |             |     |
| 1 002493<br>6.8V 0.5W Zener Diode Axial Leads<br><i>Use to replace component CR6 on IHB5-3/OVP -Va Supply MCE# 002374</i>  | 1<br>EA          | 1              |       |  | 02-3000     | 350 |
| <b>SUPPLIERS</b> supplier part no.   |                  |                |       |   |             |     |
| ● Digi-Key   | 1N5235BFSCCT-ND  |                |       |   |             |     |

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| components  |         | tot qty (+ovg)    |       |   |             |     |
|---|---------|-------------------|-------|---|-------------|-----|
| component ID / description  | UM      | usage             | ovg % | image   | seq / line# |     |
| <b>1 002494</b><br>3k92 1/4W 1% Metal film axial resistor<br><i>Use to replace component R10 on IHC5-6/OVP +Vcore Supply MCE# 002373</i>                  | 1<br>EA | 1                 |       |  | 02-3000     | 360 |
| <b>SUPPLIERS</b>  |         | supplier part no. |       |   |             |     |
| ● Digi-Key  |         | 3.92KXTR-ND       |       |   |             |     |
| <b>1 002495</b><br>130R 1/4W 1% Metal film axial resistor<br><i>Use to replace component R12 on IHE5-18/OVP +Va Supply MCE# 002376</i>                    | 1<br>EA | 1                 |       |  | 02-3000     | 370 |
| <b>SUPPLIERS</b>  |         | supplier part no. |       |   |             |     |
| ● Digi-Key  |         | 130XBK-ND         |       |   |             |     |
| <b>1 002462</b><br>100000uF Capacitor 16VAluminum Elec Screw Terminals<br><i>Use to replace component C2 and C3 on IHE5-18/OVP +Va Supply MCE# 002376</i> | 2<br>EA | 2                 |       |  | 02-3000     | 380 |
| <b>SUPPLIERS</b>  |         | supplier part no. |       |   |             |     |
| ● Farnell   |         | B41456B4100M      |       |   |             |     |