

BPL800-600-30

| Constant Voltage Mode | | | | Constant Power Mode | | | |
|------------------------------------|---|---|---------------------|----------------------------------|---|------------|---------------------|
| CVH Range | 0.000 | ~ | 600.0 V | CPH Range | 0.000 | ~ | 800.0 W |
| CVM Range | 0.000 | ~ | 300.0 V | CPM Range | 0.000 | ~ | 400.0 W |
| CVL Range | 0.000 | ~ | 60.00 V | | @ lin | ≤ | 15.00 A |
| Transient Time Range | | | | CPL Range | 0.000 | ~ | 80.00 W |
| Fast Band(Default,Osc1) | 0.250 | ~ | 25.59 ms | | @ lin | ≤ | 3.000 A |
| Slow Band(Osc2,Osc3) | 0.250 | ~ | 255.9 ms | CPUL Range | 0.000 | ~ | 80.00 W |
| | | | | | @ lin | ≤ | 1.500 A |
| Temperature Coefficient | 100 ppm/°C of Rated Voltage | | | Transient Time Range | Same As CC Mode | | |
| Program | | | | Program | | | |
| CVH Resolution*2 | 37.50 | | mV | CPH Resolution*2 | 0.050 | | W |
| CVM Resolution*2 | 18.75 | | mV | CPM Resolution*2 | 0.025 | | W |
| CVL Resolution*2 | 3.750 | | mV | CPL Resolution*2 | 0.005 | | W |
| | | | | CPUL Resolution*2 | 0.005 | | W |
| CVH Accuracy*2 | 0.05% | ± | 0.300 V | CPH Accuracy*2 | 1.00% | ± | 9.000 W |
| CVM Accuracy*2 | 0.05% | ± | 0.300 V | | @lin | > | 1.500 A |
| CVL Accuracy*2 | 0.05% | ± | 0.300 V | | & Vin | > | 60.00 V |
| Transient Time Accuracy | 10.0% | ± | 50% of Minimum Time | CPM Accuracy*2 | 1.00% | ± | 9.000 W |
| Readback | | | | | @lin | > | 0.300 A |
| CVH Resolution | 37.50 | | mV | | & Vin | > | 60.00 V |
| CVM Resolution | 18.75 | | mV | CPL Accuracy*2 | 1.00% | ± | 9.000 W |
| CVL Resolution | 3.750 | | mV | | @lin | > | 0.030 A |
| CVH Accuracy | 0.05% | ± | 0.600 V | | & Vin | > | 120.0 V |
| CVM Accuracy | 0.05% | ± | 3.750 V | CPUL Accuracy*2 | 1.00% | ± | 0.450 W |
| CVL Accuracy | 0.05% | ± | 3.750 V | | @lin | > | 0.002 A |
| Constant Current Mode | | | | | & Vin | > | 120.0 V |
| CCH Range | 0.000 | ~ | 30.00 A | Transient Time Accuracy | 10.0% | ± | 50% of Minimum Time |
| CCM Range | 0.000 | ~ | 15.00 A | Constant Resistor Mode | | | |
| CCL Range | 0.000 | ~ | 3.000 A | CRUH Range | 400.0 | ~ | 160,000 Ω |
| CCUL Range | 0.000 | ~ | 1.500 A | | @ lin | ≤ | 1.500 A |
| CCUL Power Rating | | ≤ | 80.00 W | | & Pin | ≤ | 80.00 W |
| Transient Time Range | | | | CRH Range | 200.0 | ~ | 10,000 Ω |
| Fast Band(Default,Osc1) | 0.025 | ~ | 25.59 ms | | @ lin | ≤ | 3.000 A |
| Slow Band(Osc2,Osc3) | 0.250 | ~ | 255.9 ms | CRM Range | 20.00 | ~ | 5,000 Ω |
| Minimum Voltage(I _{Max}) | | | 3.600 V | CRL Range | 0.1200 | ~ | 20.00 Ω |
| Temperature Coefficient | 100 ppm/°C of Rated Current | | | Transient Time Range | | | |
| Program | | | | CRM/CRH/CRUH | Same As CC Mode | | |
| CCH Resolution*2 | 1.875 | | mA | CRL | Same As CV Mode | | |
| CCM Resolution*2 | 0.938 | | mA | Temperature Coefficient | 300 ppm/°C of Minimum Resistance | | |
| CCL Resolution*2 | 0.188 | | mA | CRM/CRH/CRUH | 300 ppm/°C of Maximum Resistance | | |
| CCUL Resolution*2 | 0.094 | | mA | Program | | | |
| CCH Accuracy*2 | 0.05% | ± | 0.030 A | CRUH Resolution*2 | | 0.0002 | mS |
| CCM Accuracy*2 | 0.05% | ± | 0.030 A | CRH Resolution*2 | | 0.0003 | mS |
| CCL Accuracy*2 | 0.05% | ± | 0.030 A | CRM Resolution*2 | | 0.0031 | mS |
| CCUL Accuracy*2 | 0.05% | ± | 0.00075 A | CRL Resolution*2 | | 1.2500 | mΩ |
| Transient Time Accuracy | 10.0% | ± | 50% of Minimum Time | CRUH Accuracy*2 | 1.00% | ± | 0.014 mS |
| Readback | | | | | @lin | > | 0.002 A |
| CCH Resolution | 1.875 | | mA | | & Vin | > | 120.0 V |
| CCM Resolution | 0.938 | | mA | CRH Accuracy*2 | 1.00% | ± | 0.056 mS |
| CCL Resolution | 0.188 | | mA | | @lin | > | 0.030 A |
| CCUL Resolution | 0.094 | | mA | | & Vin | > | 120.0 V |
| CCH Accuracy | 0.05% | ± | 0.030 A | CRM Accuracy*2 | 1.00% | ± | 0.211 mS |
| CCM Accuracy | 0.05% | ± | 0.030 A | | @lin | > | 0.300 A |
| CCL Accuracy | 0.05% | ± | 0.030 A | | & Vin | > | 60.00 V |
| CCUL Accuracy | 0.05% | ± | 0.00075 A | CRL Accuracy*2 | 1.00% | ± | 84.38 mΩ |
| Programmable Protection | | | | | @lin | > | 3.000 A |
| Power(OPP) | | | | | & Vin | > | 0.600 V |
| Range | 1.100 | ~ | 880.0 W | Transient Time Accuracy | 10.0% | ± | 50% of Minimum Time |
| Resolution | | | 0.110 W | External | | | |
| Accuracy | 0.50% | ± | 2.200 W | Program | 0~10 Volts Input yields | | |
| Voltage(OVP) | | | | | 0~selected full scaled loading in all modes | | |
| Range | 0.394 | ~ | 630.0 V | Accuracy | Same As Internal | ± 0.1% | Rating |
| Resolution | | | 0.039 V | Input Impedance | 400.0 | ± | 1 % KΩ |
| Accuracy | 0.20% | ± | 0.788 V | Band/Width(-3dB) | Limited By Internal Adjustable Transient Time | | |
| Current(OC) | | | | Monitor output Signal | 0~10 Volts output for 0~full scaled Value | | |
| Range | 0.020 | ~ | 31.50 A | VMON Accuracy | 0.10% | ± | 0.600 V |
| Resolution | | | 0.002 A | IMON Accuracy(CCL&CCM&CCH) | 0.10% | ± | 0.030 A |
| Accuracy | 0.20% | ± | 0.039 A | IMON Accuracy(CCUL) | 0.10% | ± | 0.00075 A |
| Under Voltage Lockout(UVL) | | | | Others | | | |
| Mode | Input On/Continuous | | | Transient Mode | | | |
| Range | 0.450 | ~ | 600.0 V | Frequency Range | 0.100 | ~ | 10,000 Hz |
| Resolution | | | 0.150 V | Accuracy | | | 0.1% |
| Accuracy | 2.00% | ± | 0.750 V | Duty Range | 1.000 | ~ | 100.0 % |
| Anti-Oscillation | Default/Osc1/Osc2/Osc3/Disable | | | Accuracy | | | 0.1% |
| Protection | | | | Remote Interface | GPIB/RS-232/ETHERNET/USB | | |
| Over Power Protection(OP) | 880.0 | ± | 16.76 W | | | | |
| Over Voltage Protection(OV) | 630.0 | ± | 12.00 V | | | | |
| Over Current Protection(OC) | 33.00 | ± | 0.314 A | | | | |
| Over Temperature Protection(OTP) | 90.00 | ± | 5.000 °C | | | | |
| Reverse Maximum Current(RCP) | 33.00 | | A | Derating for higher temperatures | (-)1.67% Rated Power/°C | | |
| Short Maximum Current | | | 30.60 A | General | | | |
| Remote Inhibit(RI) | Short | | | AC Input | 95~240 Vac 48~62 Hz | | |
| Fault Indicator | SPDT Relay (30VDC/0.5A or 125VAC/0.25A) | | | Power Consumption | 60 | VA @120Vac | |
| Dielectric Strength | | | | Operating Temperature | 5 | ~ | 40 °C |
| Primary Circuit To Chassis | 1500 VAC for 1 MIN | | | Dimension | 8.35"(W)x5.20"(H)x15.65"(D) | | |
| Primary Circuit To Load Terminal | 1500 VAC for 1 MIN | | | Weight | 22 LBS | | |
| Load Terminal To Chassis | 1500 VDC for 1 MIN | | | | | | |

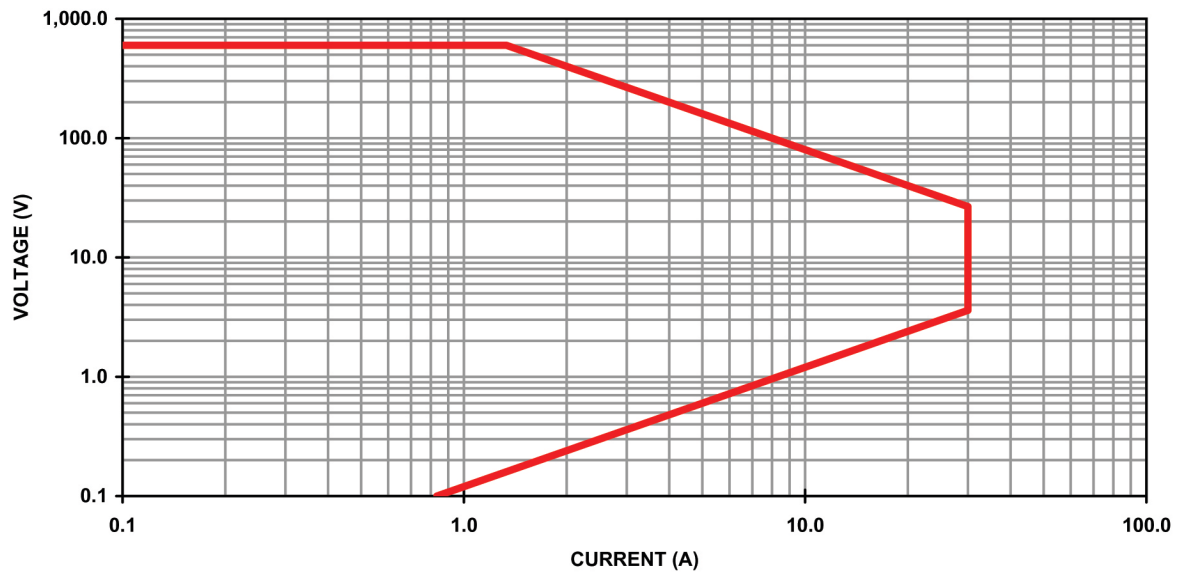
*1 All Mode Specification measure by slow band and 25°C room temperature unless otherwise specified

Ver 1.0 Date : 01/25/07

*2 Transient Mode Specification must be x2

AMREL reserves the right to change limits, test conditions, and dimensions without notice

BPL800-600-30 (600V,30A,800W) OPERATIONAL CURVE



BPL800-600-30 (600V,1.5A,80W) ULTRA RANGE OPERATIONAL CURVE

