

## 5V SERIES 500V DC LOADS

### Operating Area Charts:

- 600W to 14400W  
See 5VP Series for Higher Power
- High Voltage Range, 0 - 500 Vdc  
See 5L, 5P or 5VP Series for 0 - 60Vdc  
See 5VP Series for 0 - 600Vdc  
or 0 - 1000Vdc
- Current Ranges up to 500 Adc  
See 5VP Series for Higher Current

### MODELS:

- 5V006-02: 600W, 500V, 20A
- 5V012-04: 1200W, 500V, 40A
- 5V018-01: 1800W, 500V, 12A
- 5V018-06: 1800W, 500V, 60A
- 5V024-08: 2400W, 500V, 80A
- 5V036-02: 3600W, 500V, 24A
- 5V036-12: 3600W, 500V, 120A
- 5V054-04: 5400W, 500V, 36A
- 5V054-18: 5400W, 500V, 180A
- 5V072-05: 7200W, 500V, 48A
- 5V072-24: 7200W, 500V, 240A
- 5V090-06: 9000W, 500V, 60A
- 5V090-30: 9000W, 500V, 300A
- 5V108-07: 10800W, 500V, 72A
- 5V108-36: 10800W, 500V, 360A
- 5V126-42: 12600W, 500V, 420A
- 5V144-50: 14400W, 500V, 500A



### OVERVIEW

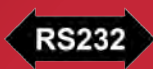
This technical specification sheets contains voltage, current and power operating curves for all 5V Series models electronic DC load cabinets. Use these charts in combination with the 5V Series data sheet to determine the optimal model that meets your specific application needs.

DC electronic loads typically operate within a maximum constant power curve.

### HOW TO READ THESE CHARTS

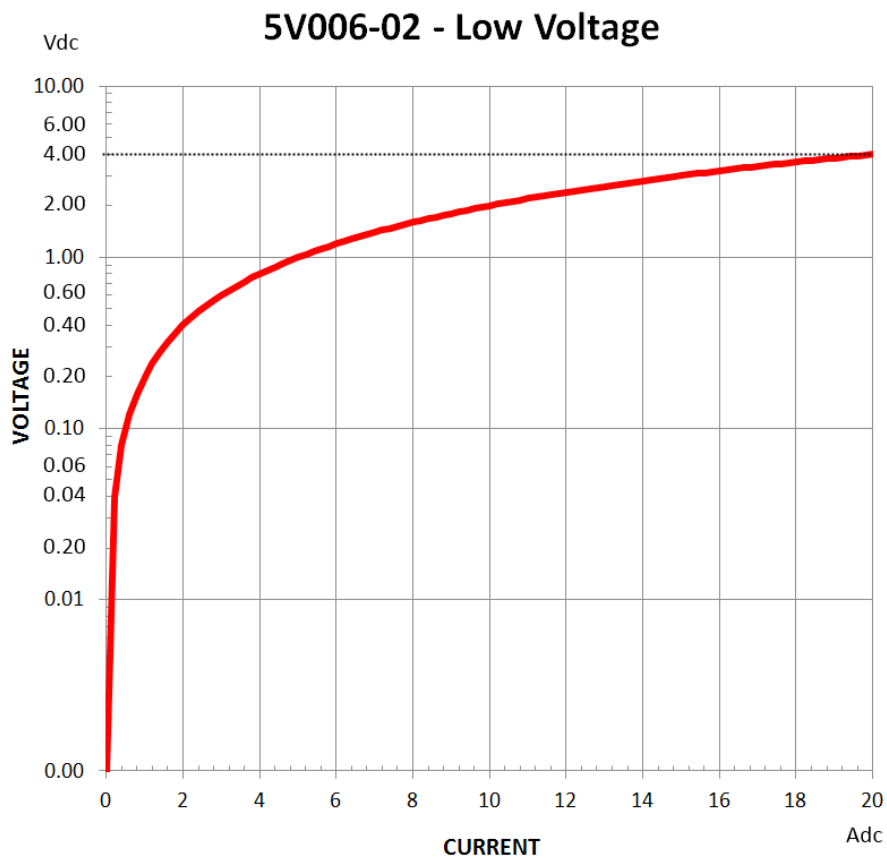
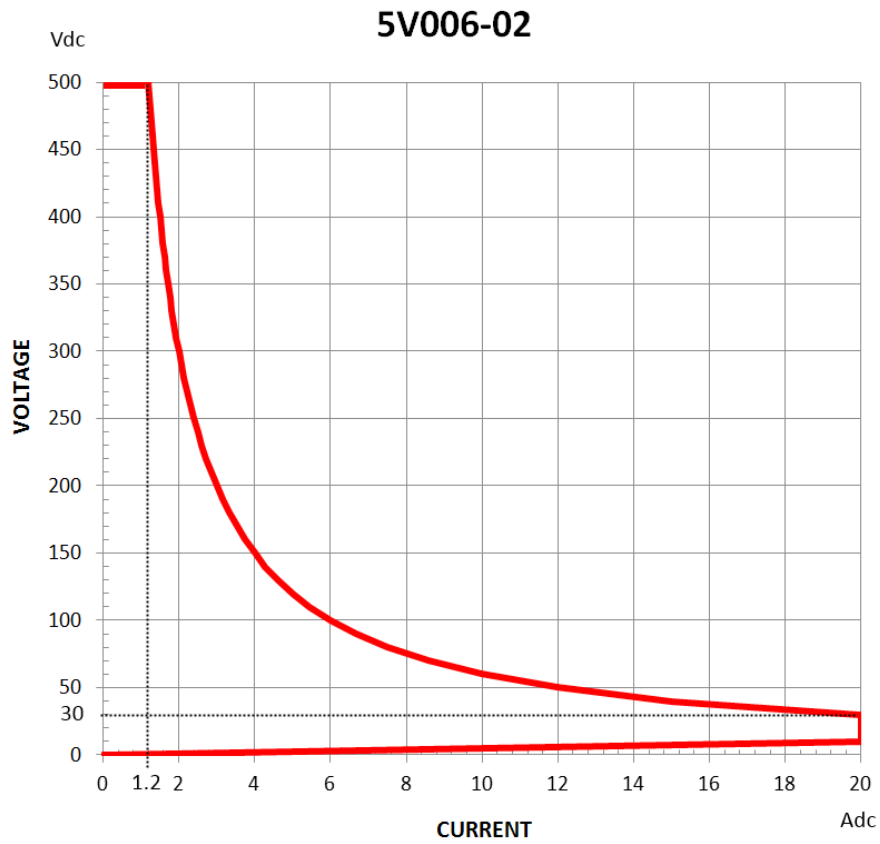
For each APS load model, two charts are provided. The first chart shows the maximum operating limits of input voltage, current and power dissipation. The load can be used anywhere below this (red) line. Input voltage to the load is always shown on the vertical axis in Vdc and Current along the horizontal axis in Adc. The red curve shows the maximum power dissipation point for any voltage or current. The usable load area is anywhere below the red line. Any attempt to operate above the red line will result in either a over-voltage (OVP), over-current (OCP) or over-power (OPP) protection fault . If this happens, the load turns off to protect itself from damage.

In addition to the operating curve, a second chart shows the low-voltage operating range in greater detail. To better show the small voltage differences on the vertical scale, these charts use a logarithmic scale instead of a linear scale. Low voltage operation is possible but at decreasing current (and this power) levels only. The minimum voltage at which full current can be drawn is shown by the horizontal dashed line.



# MODEL 5V006-02 RATING CHARTS

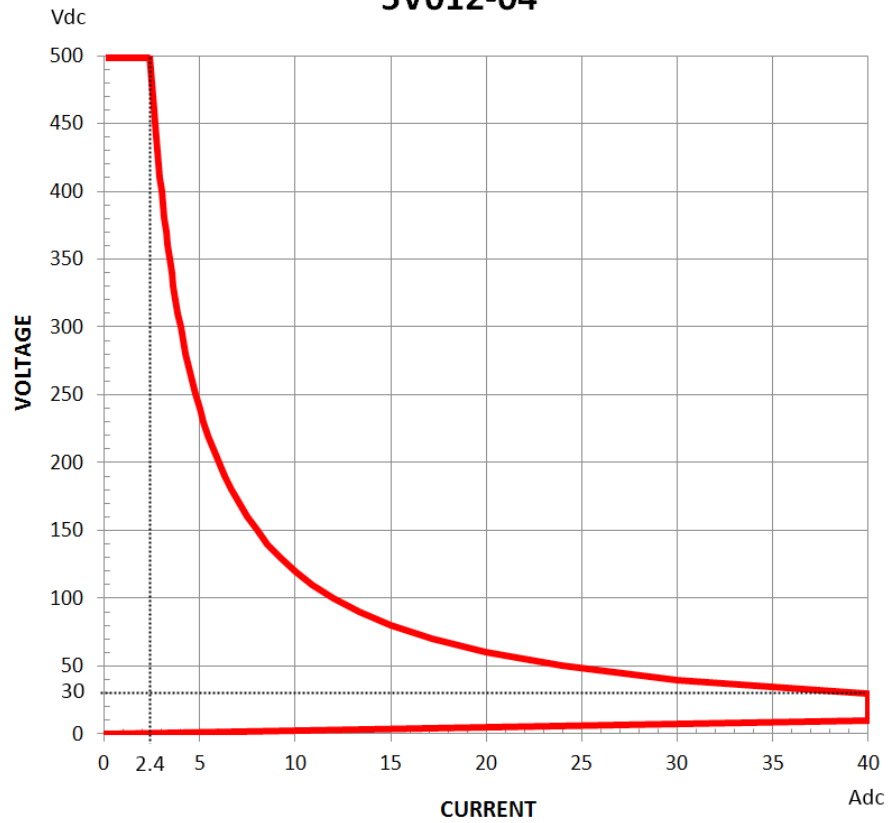
600W, 500V, 20A



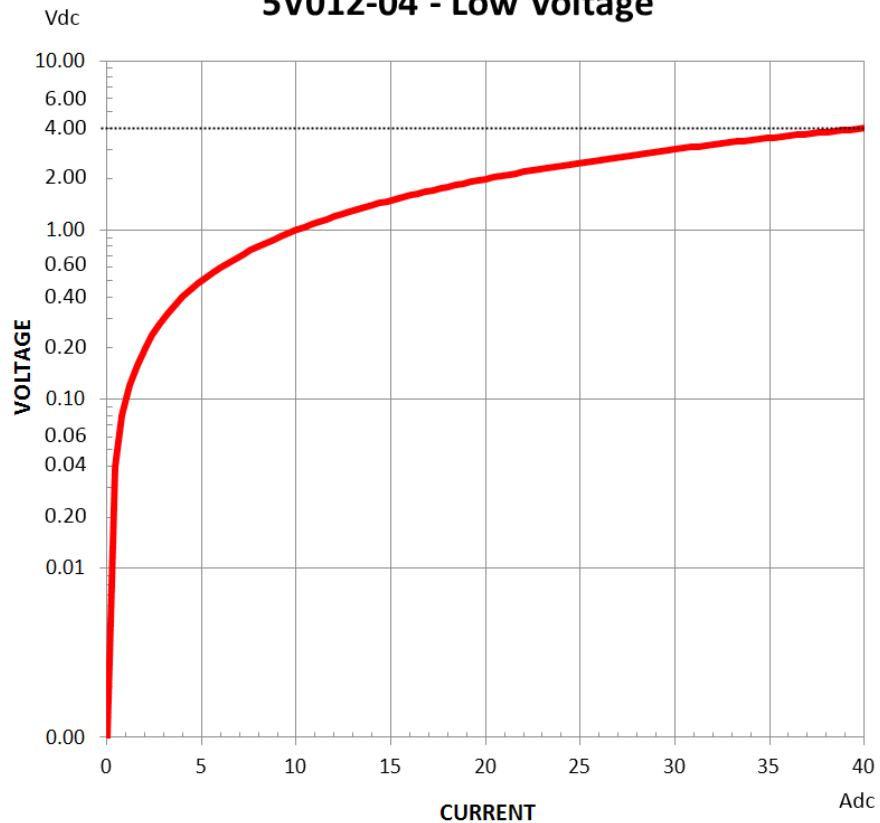
# MODEL 5V012-04 RATING CHARTS

1200W, 500V, 40A

5V012-04

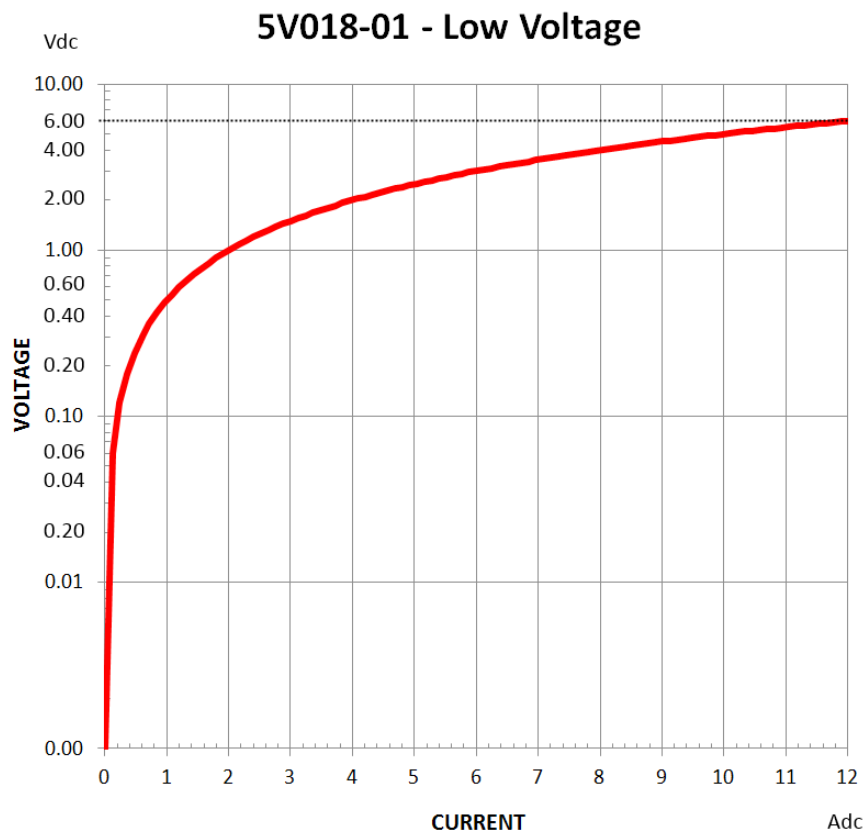
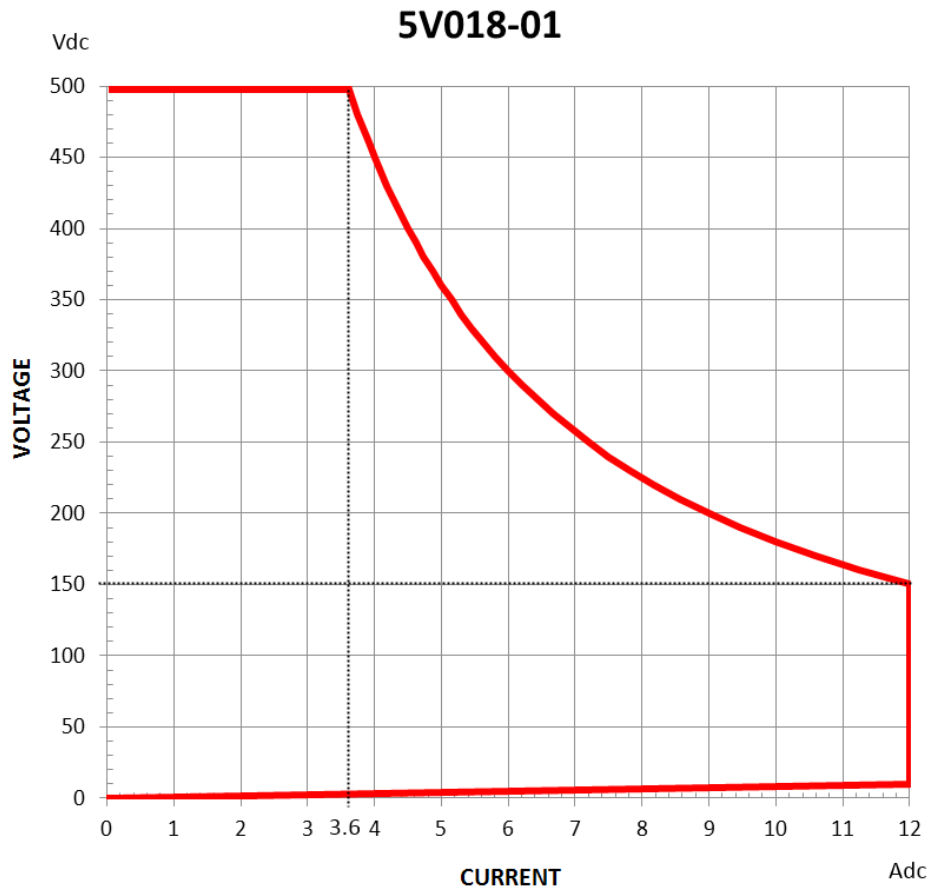


5V012-04 - Low Voltage



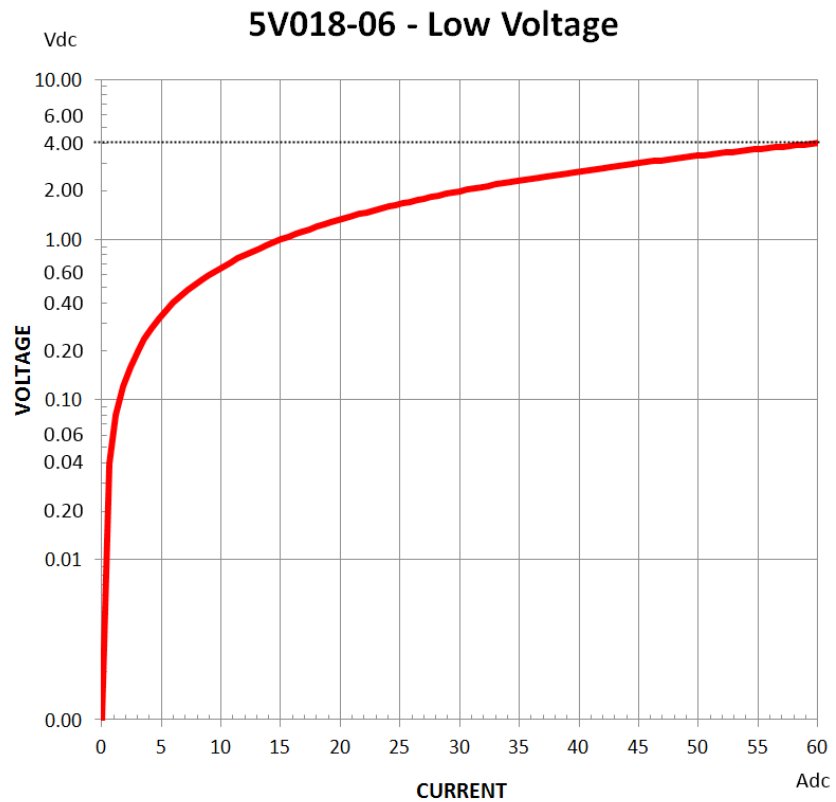
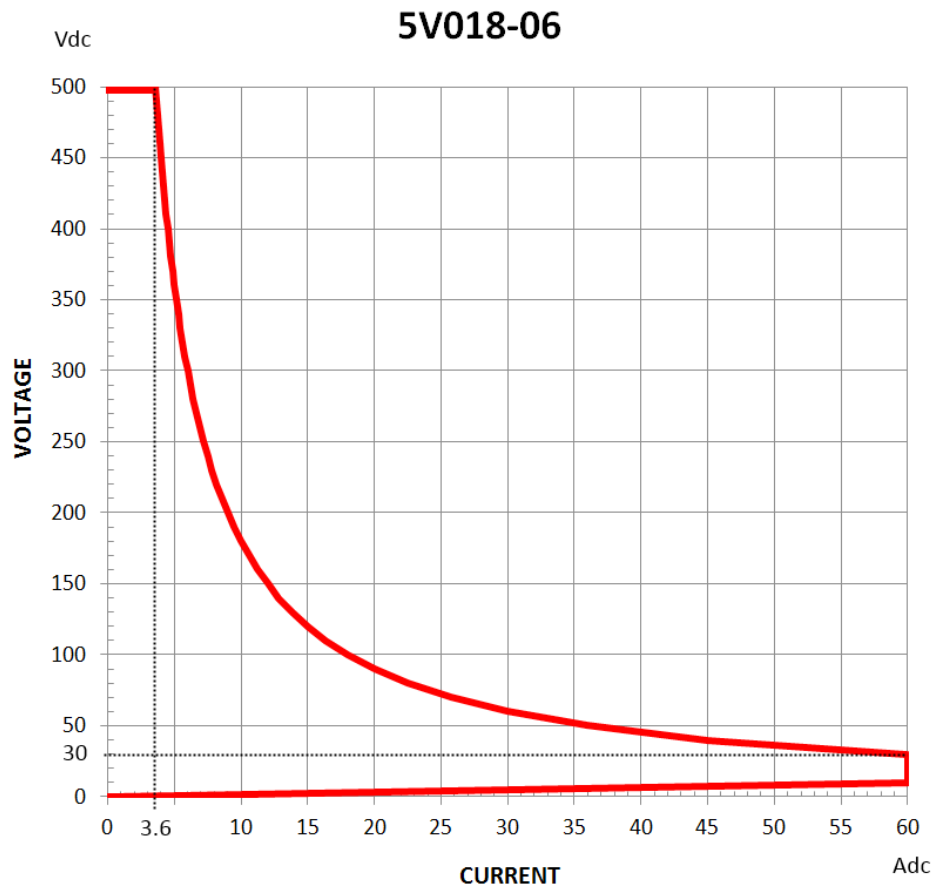
# MODEL 5V018-01 RATING CHARTS

1800W, 500V, 12A



# MODEL 5V018-06 RATING CHARTS

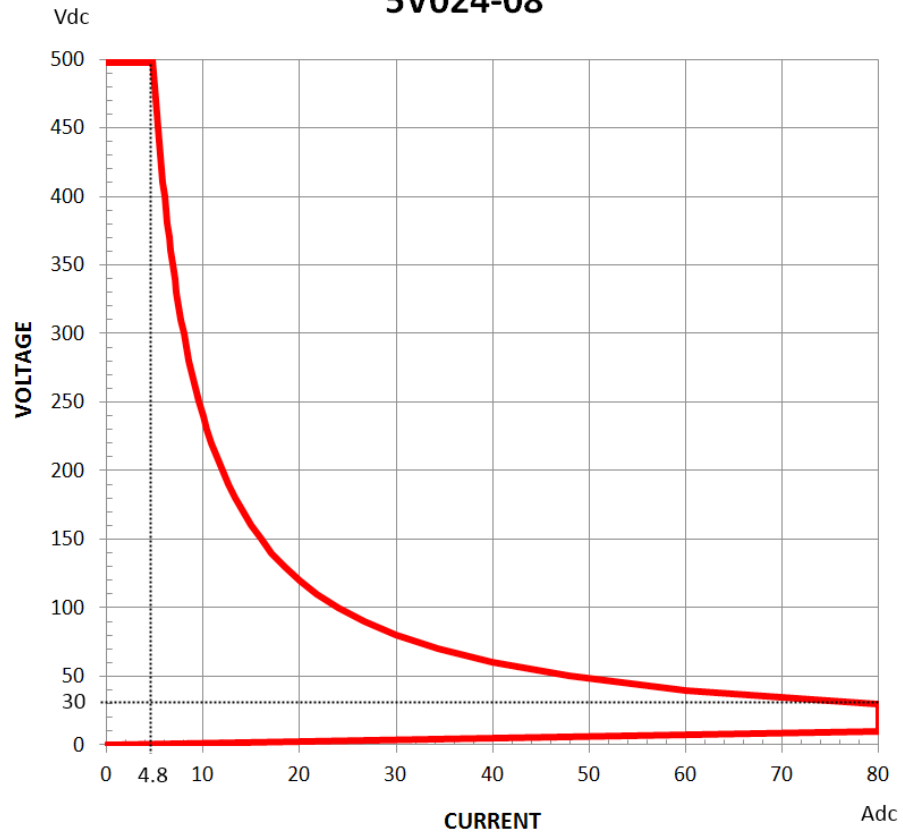
1800W, 500V, 60A



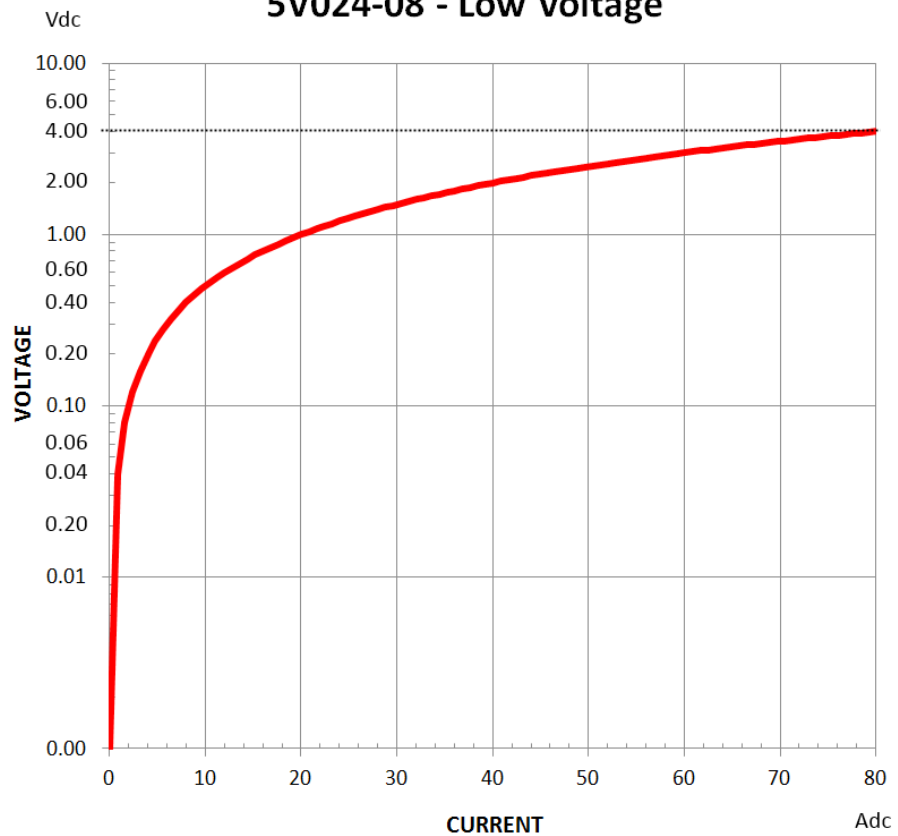
# MODEL 5V024-08 RATING CHARTS

2400W, 500V, 80A

## 5V024-08

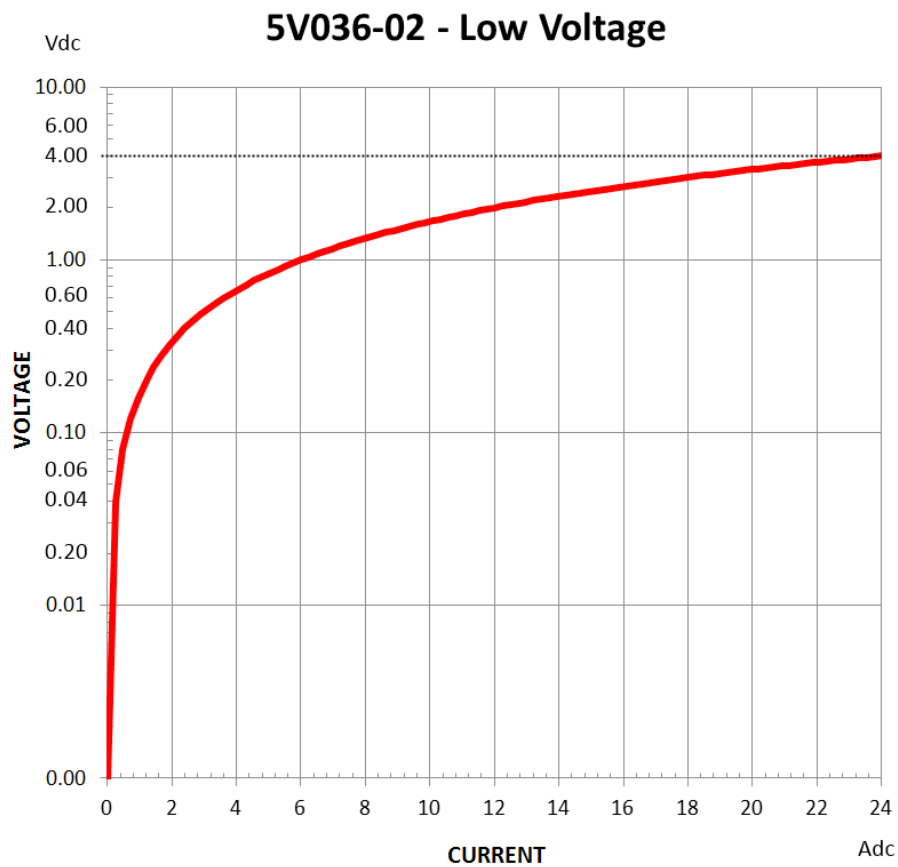
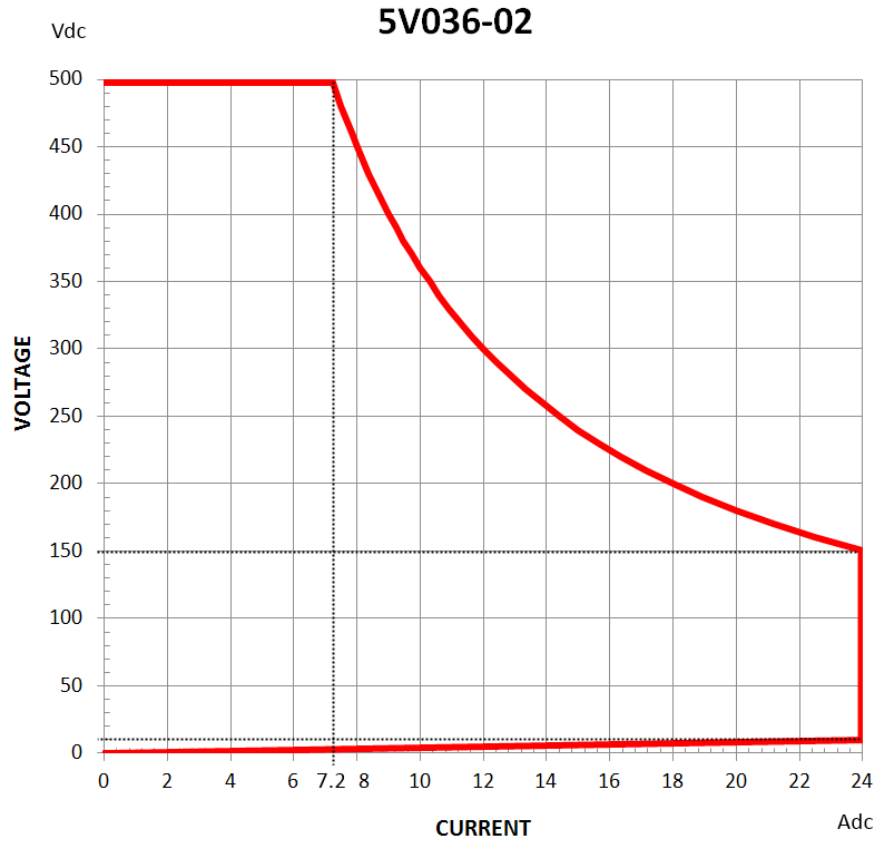


## 5V024-08 - Low Voltage



# MODEL 5V036-02 RATING CHARTS

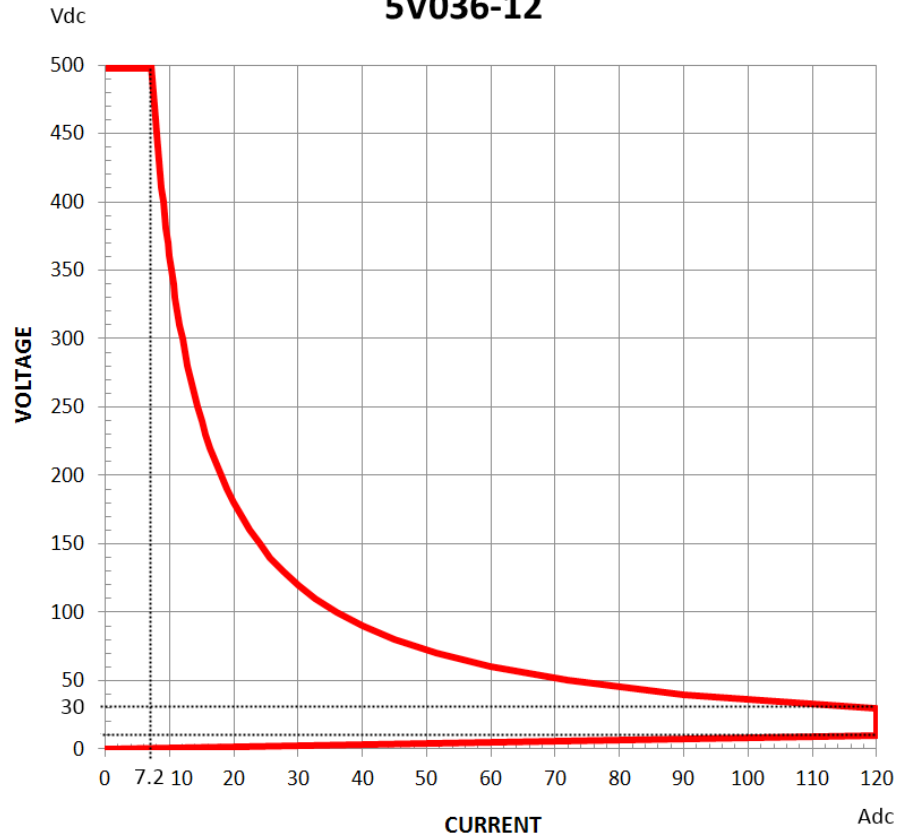
3600W, 500V, 24A



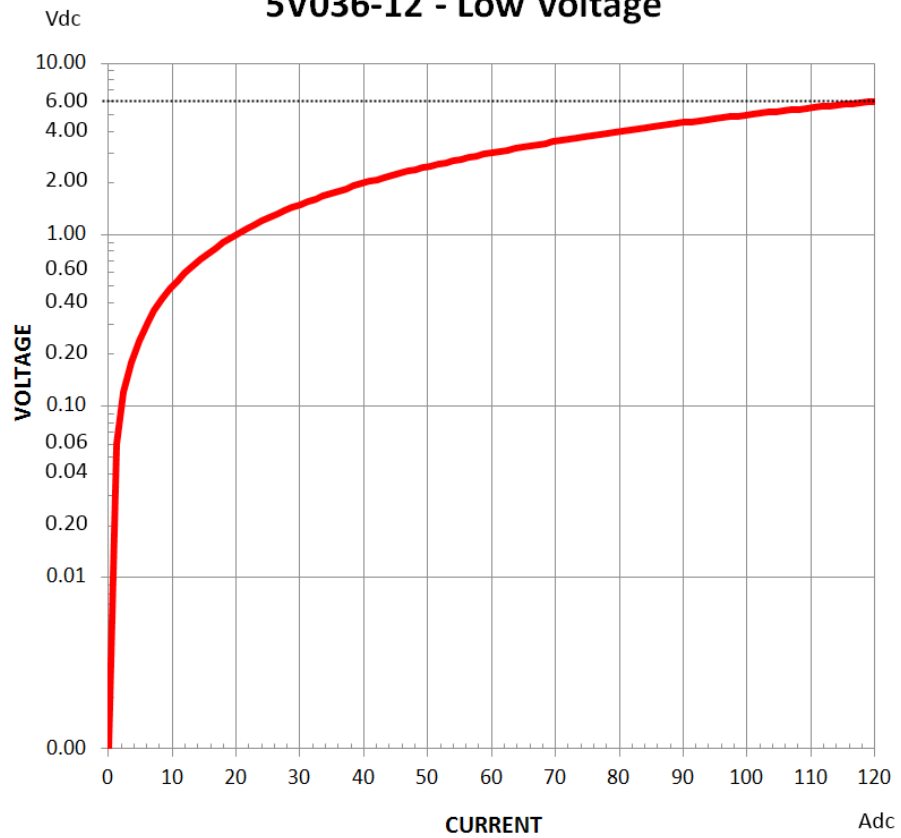
# MODEL 5V036-12 RATING CHARTS

3600W, 500V, 120A

5V036-12



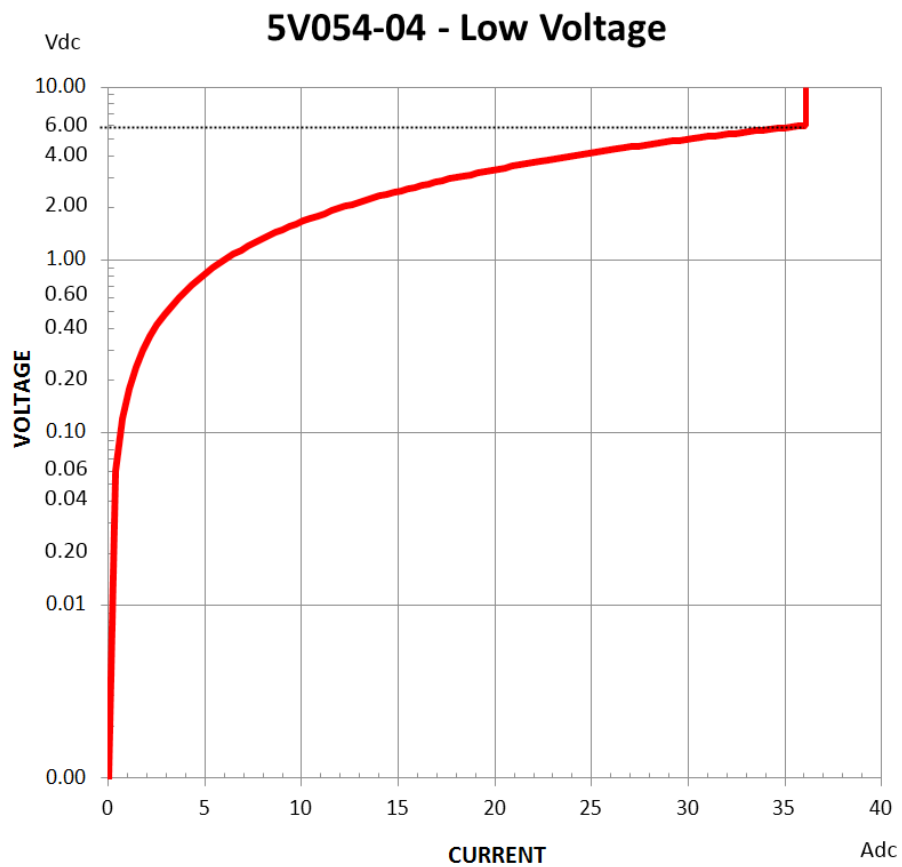
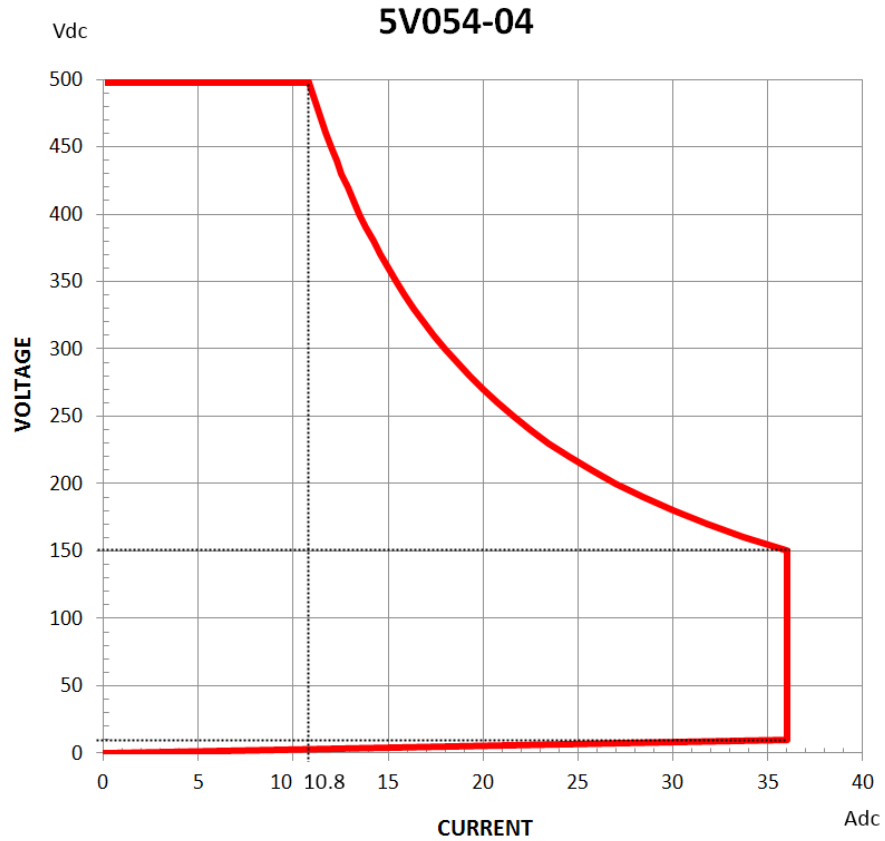
5V036-12 - Low Voltage





# MODEL 5V054-04 RATING CHARTS

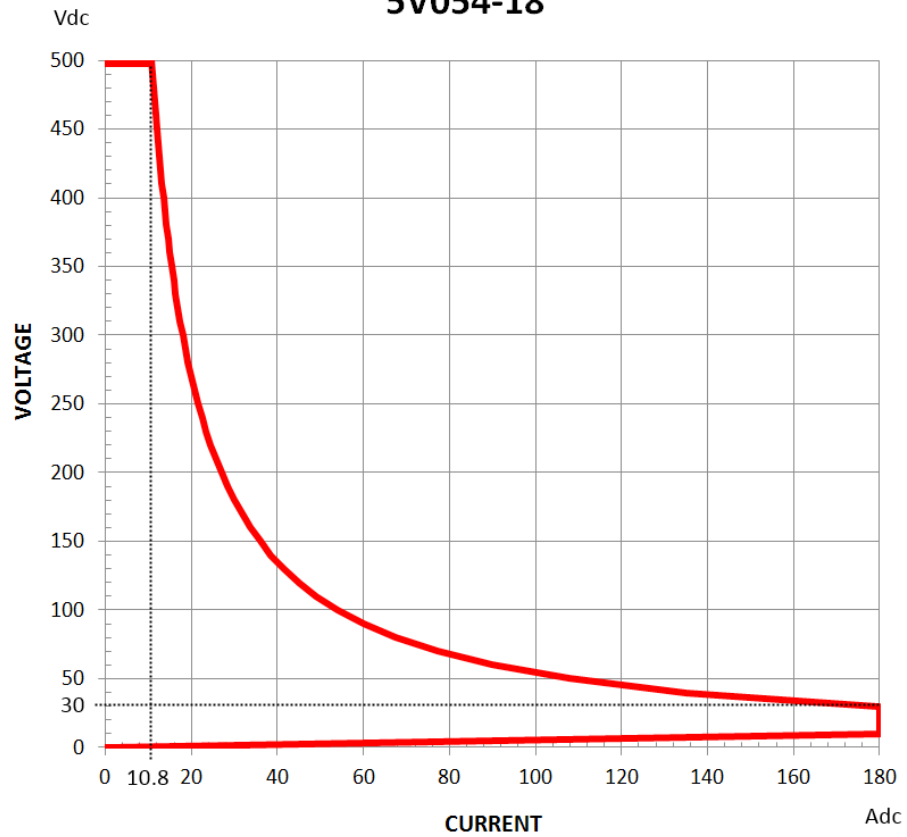
5400W, 500V, 48A



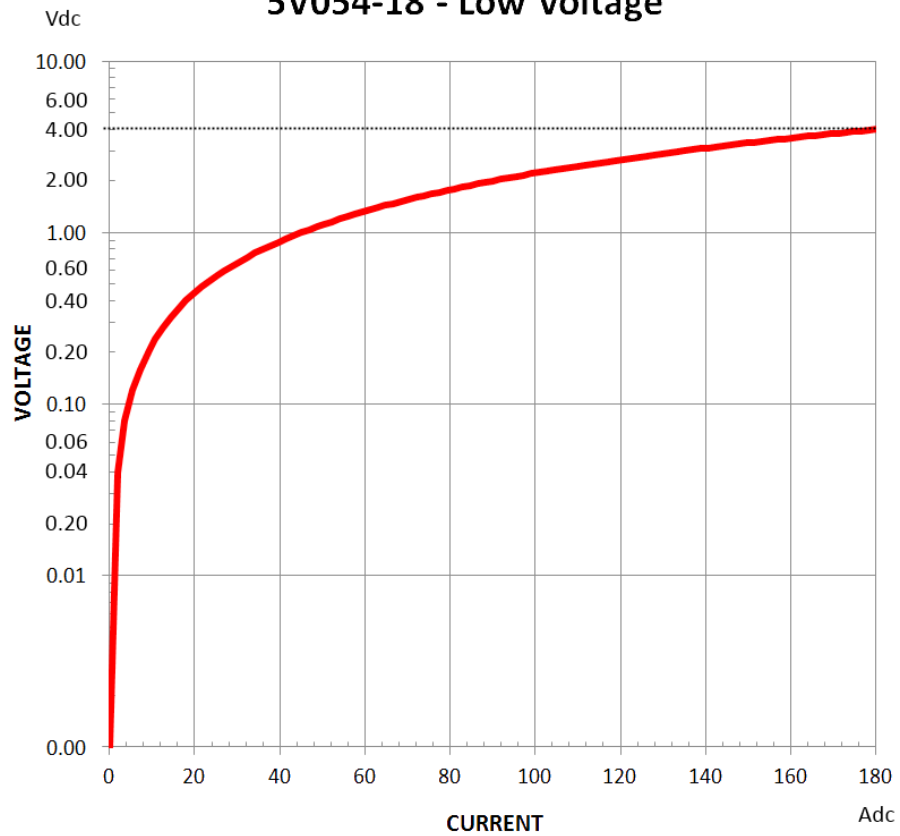
# MODEL 5V054-18 RATING CHARTS

5400W, 500V, 180A

5V054-18

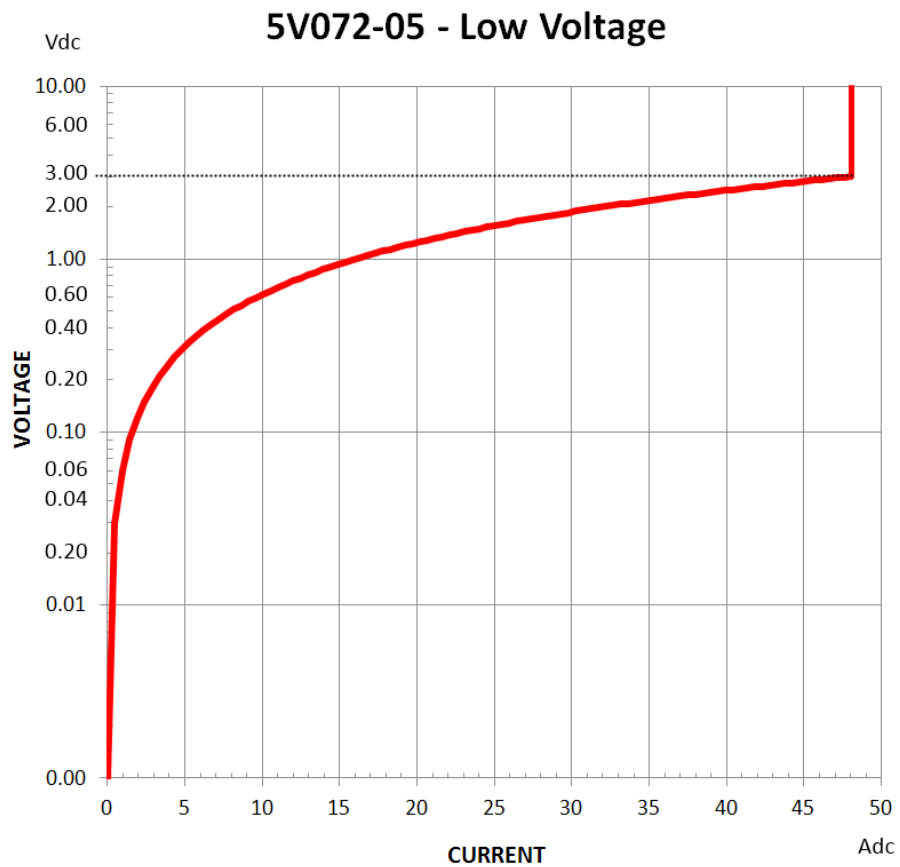
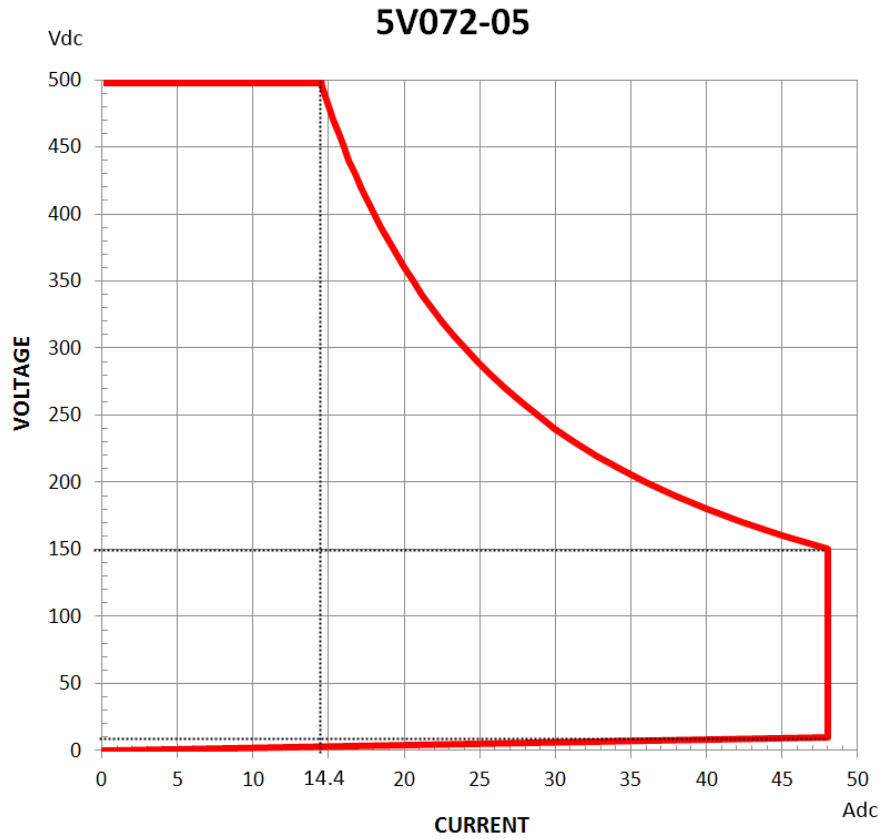


5V054-18 - Low Voltage



# MODEL 5V072-05 RATING CHARTS

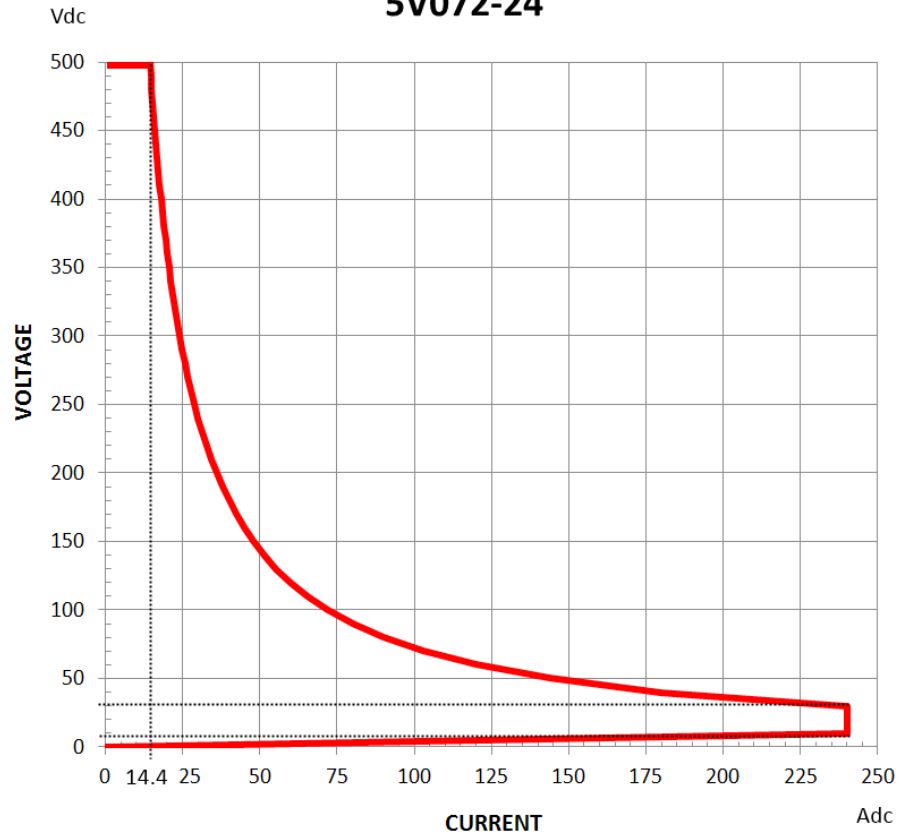
7200W, 500V, 48A



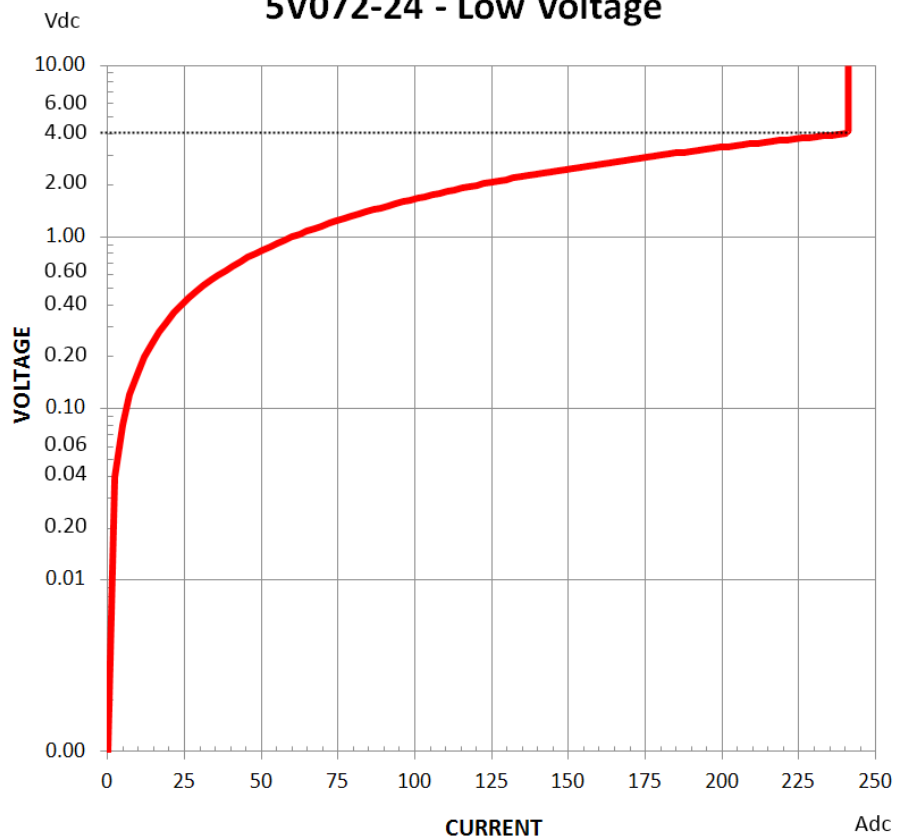
# MODEL 5V072-24 RATING CHARTS

7200W, 500V, 240A

5V072-24

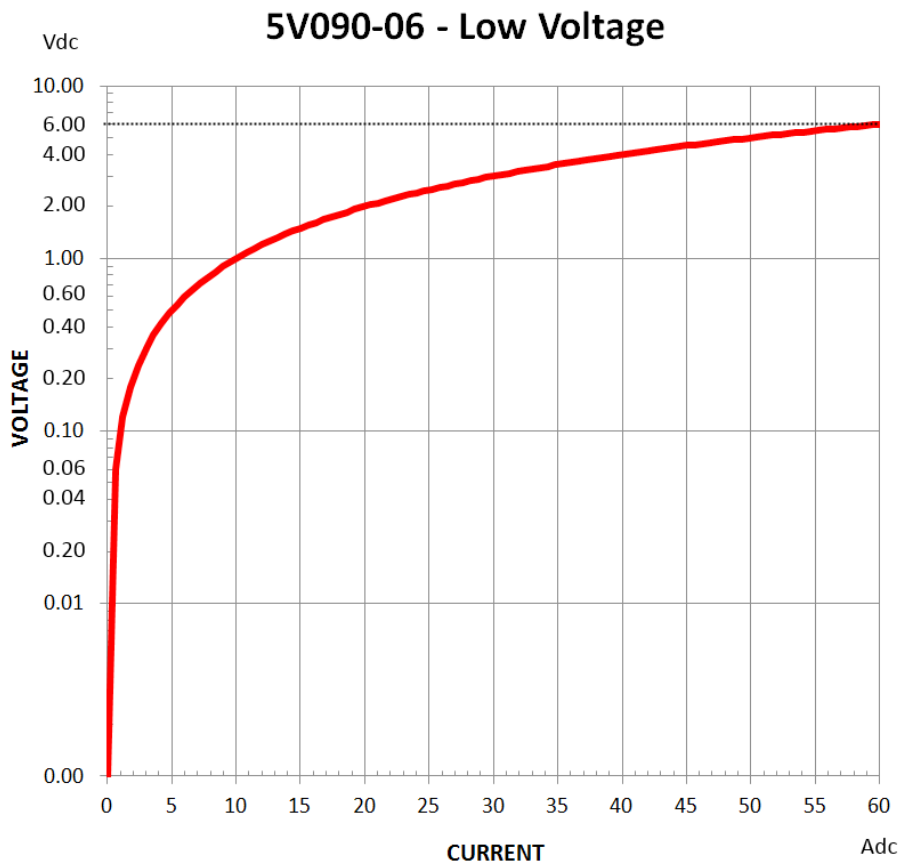
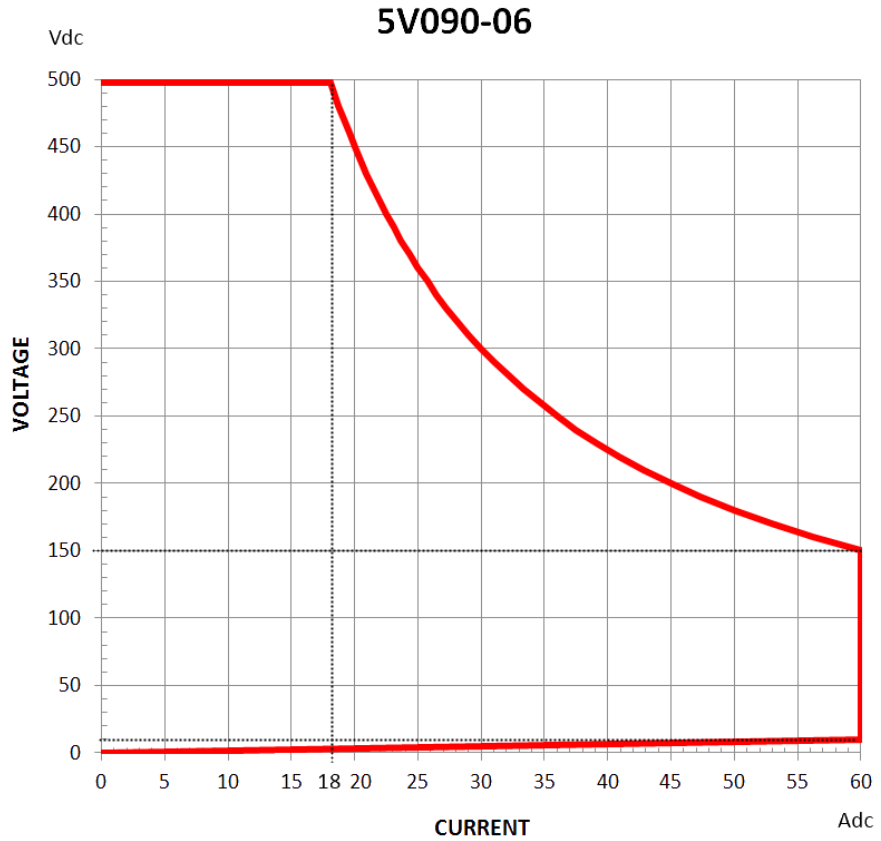


5V072-24 - Low Voltage



# MODEL 5V090-06 RATING CHARTS

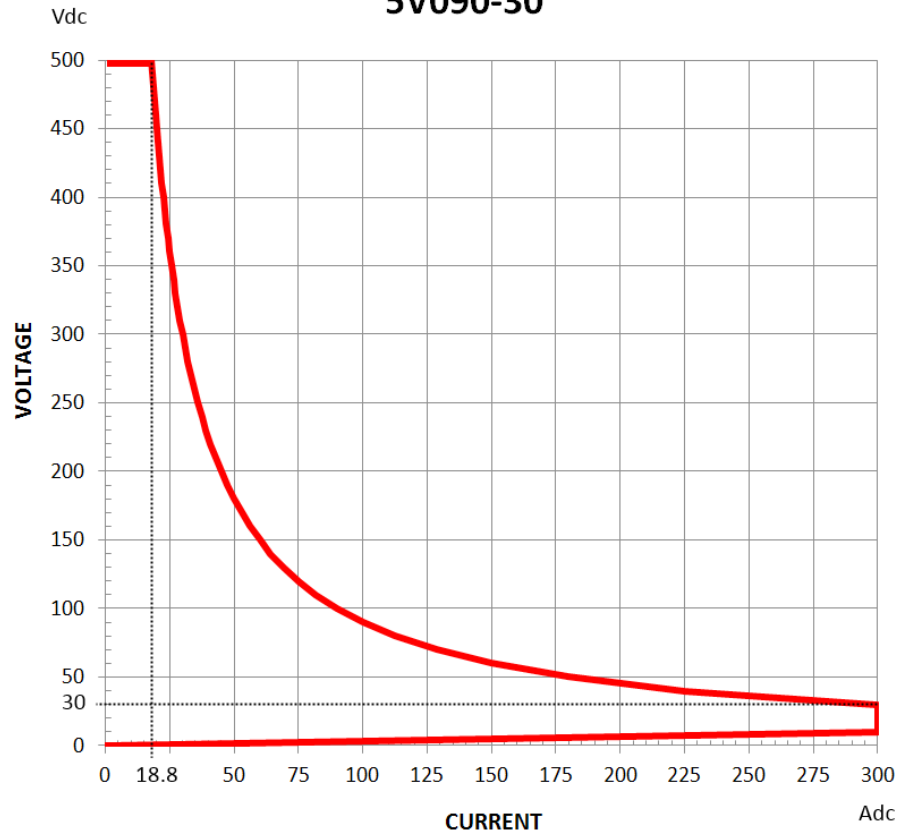
9000W, 500V, 60A



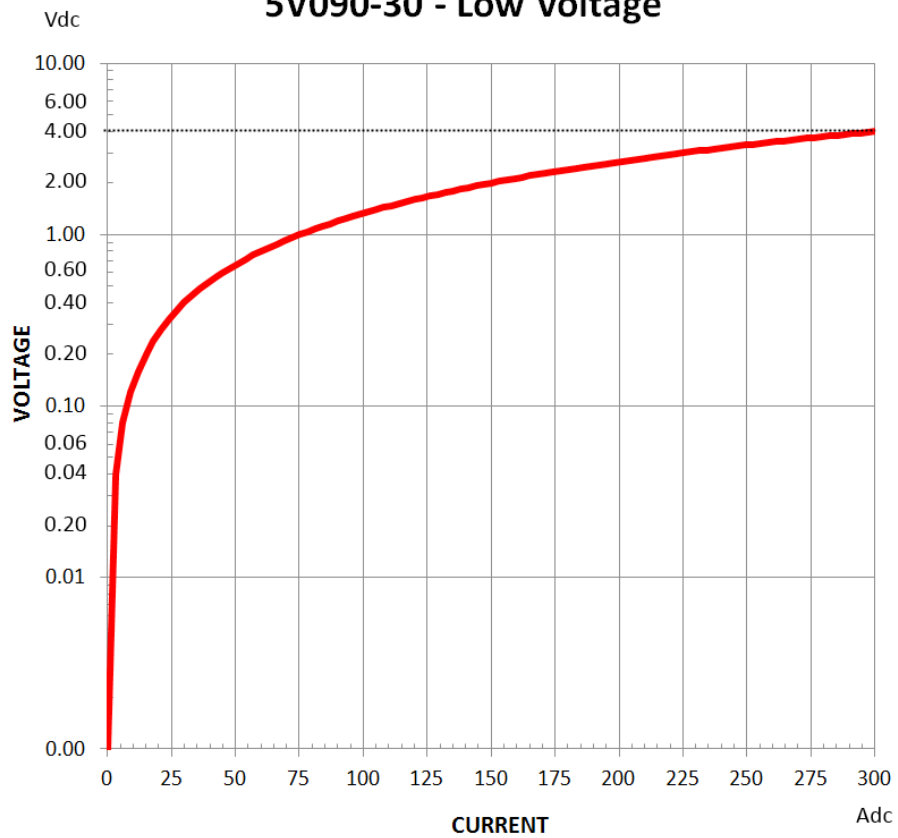
# MODEL 5V090-30 RATING CHARTS

9000W, 500V, 300A

5V090-30



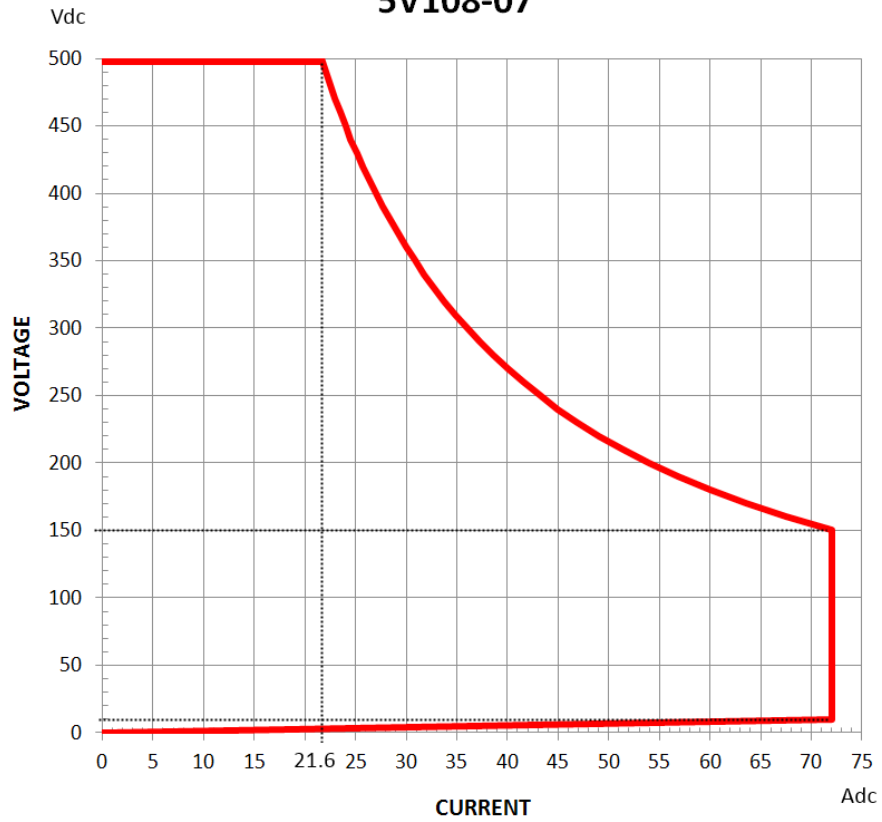
5V090-30 - Low Voltage



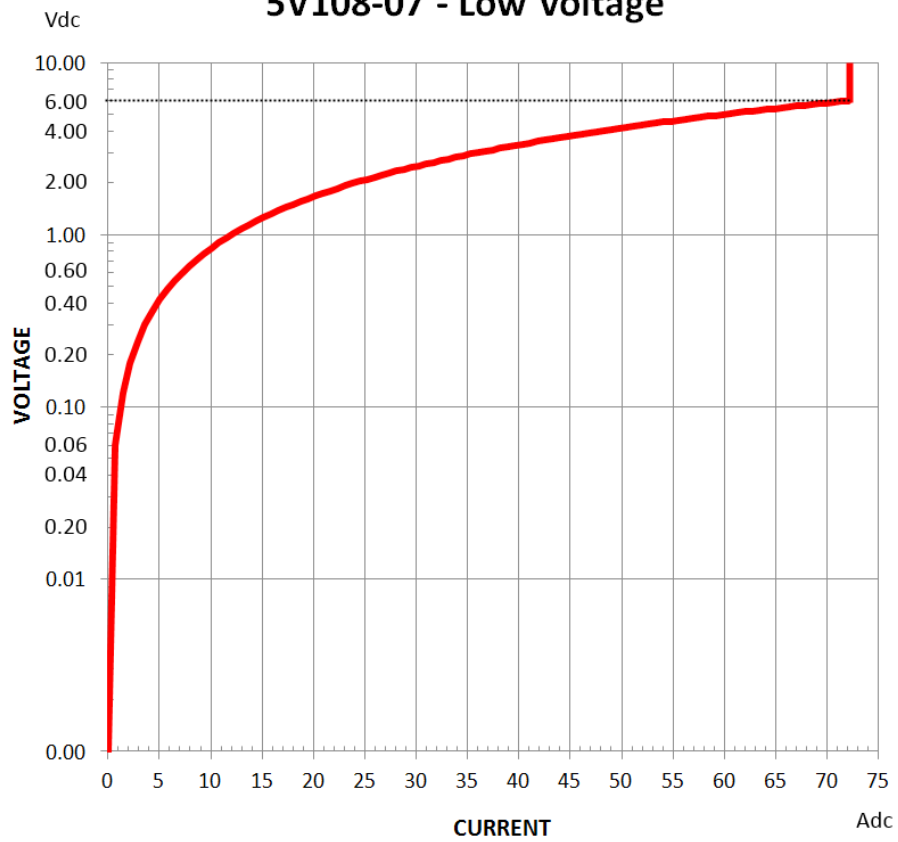
# MODEL 5V108-07 RATING CHARTS

10800W, 500V, 72A

## 5V108-07



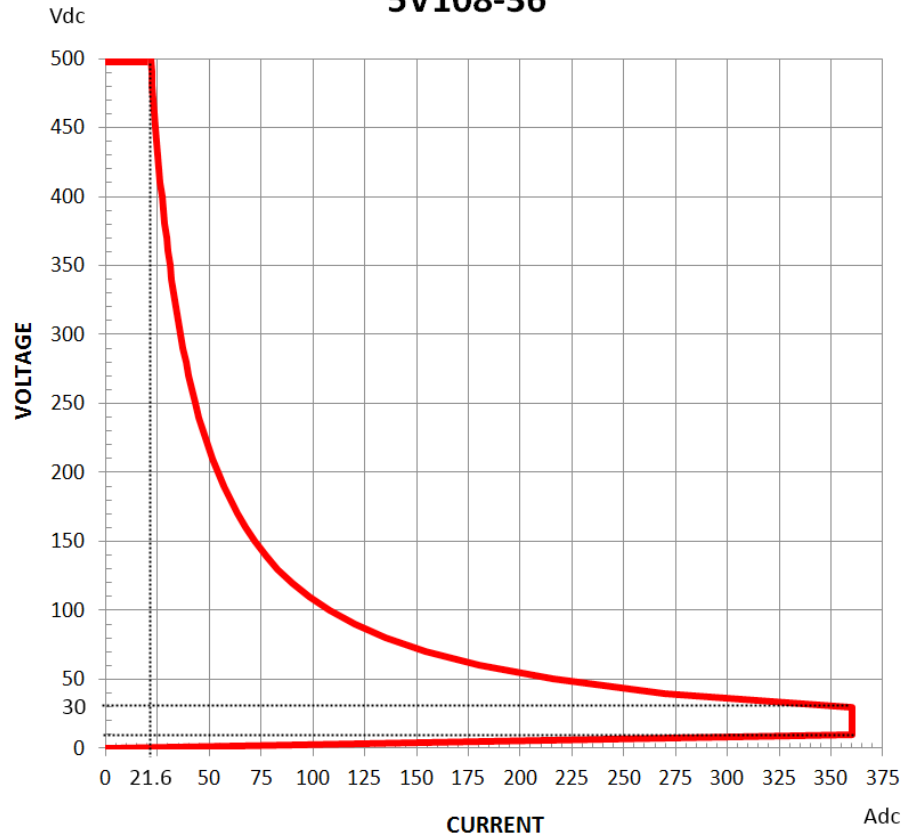
## 5V108-07 - Low Voltage



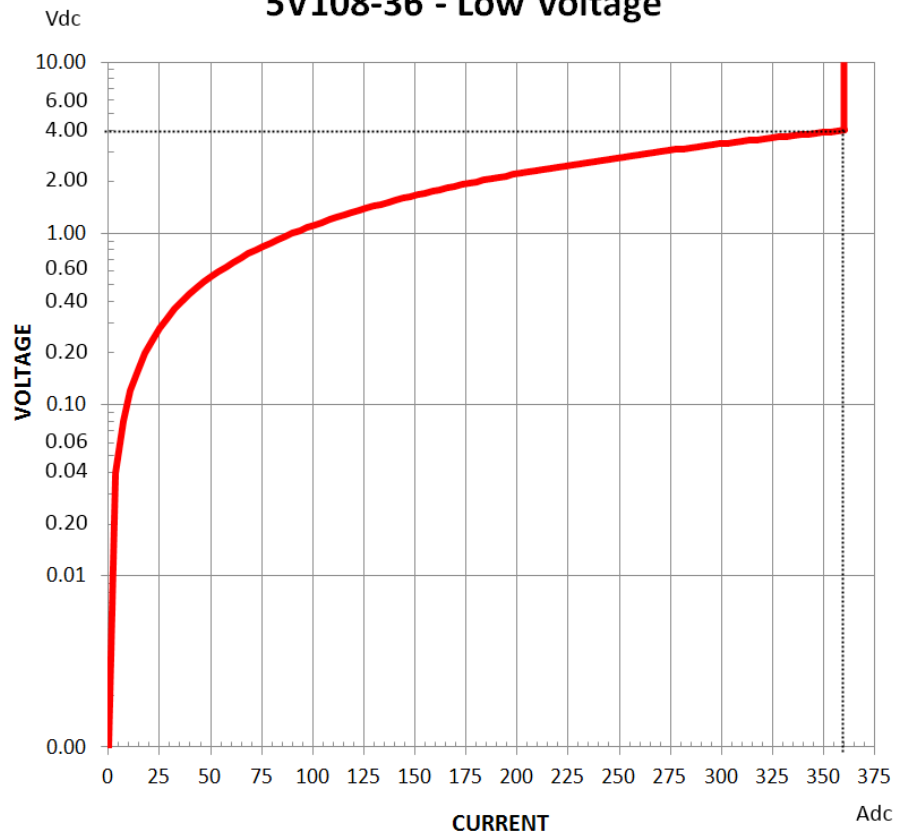
# MODEL 5V108-36 RATING CHARTS

10800W, 500V, 360A

5V108-36



5V108-36 - Low Voltage

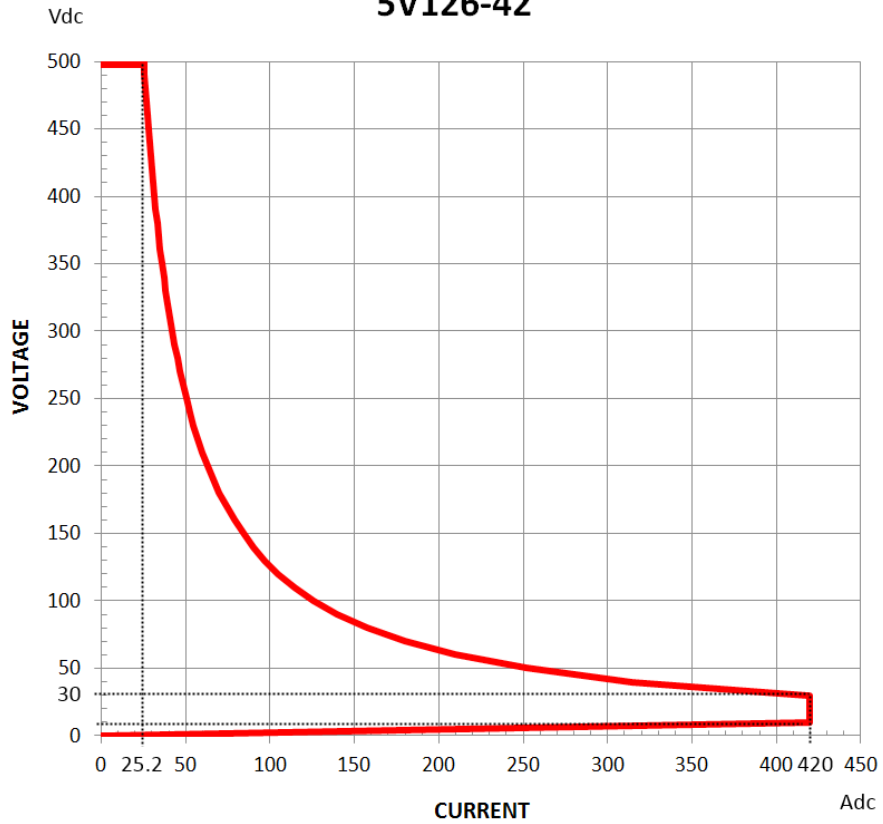




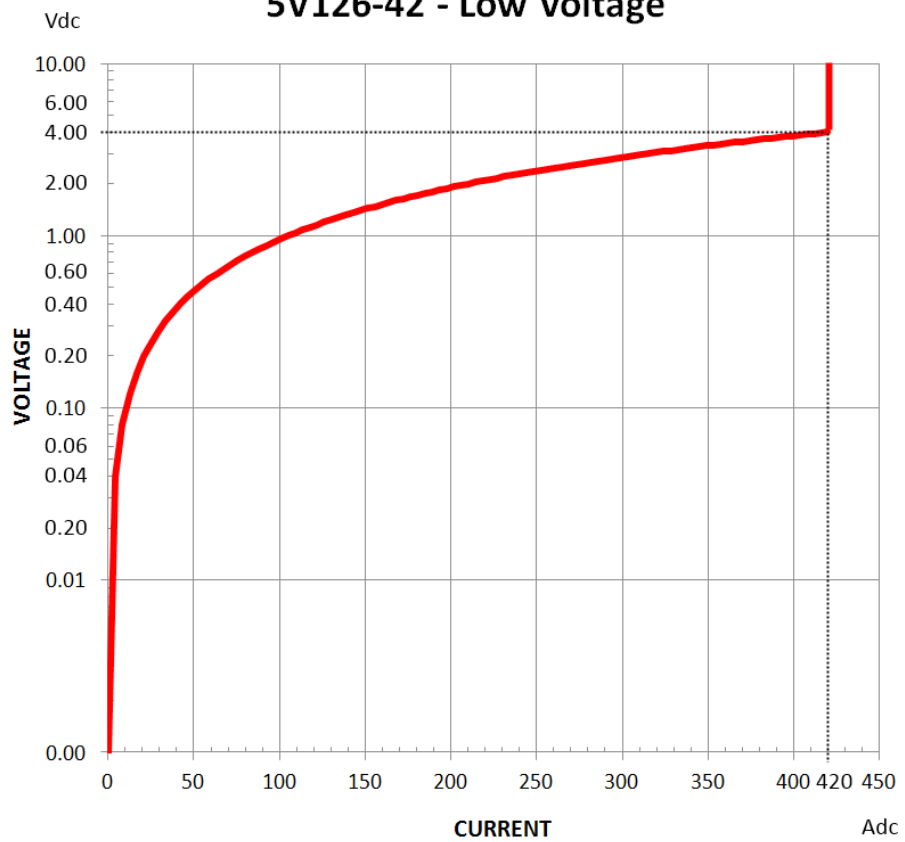
# MODEL 5V126-42 RATING CHARTS

12600W, 500V, 420A

## 5V126-42



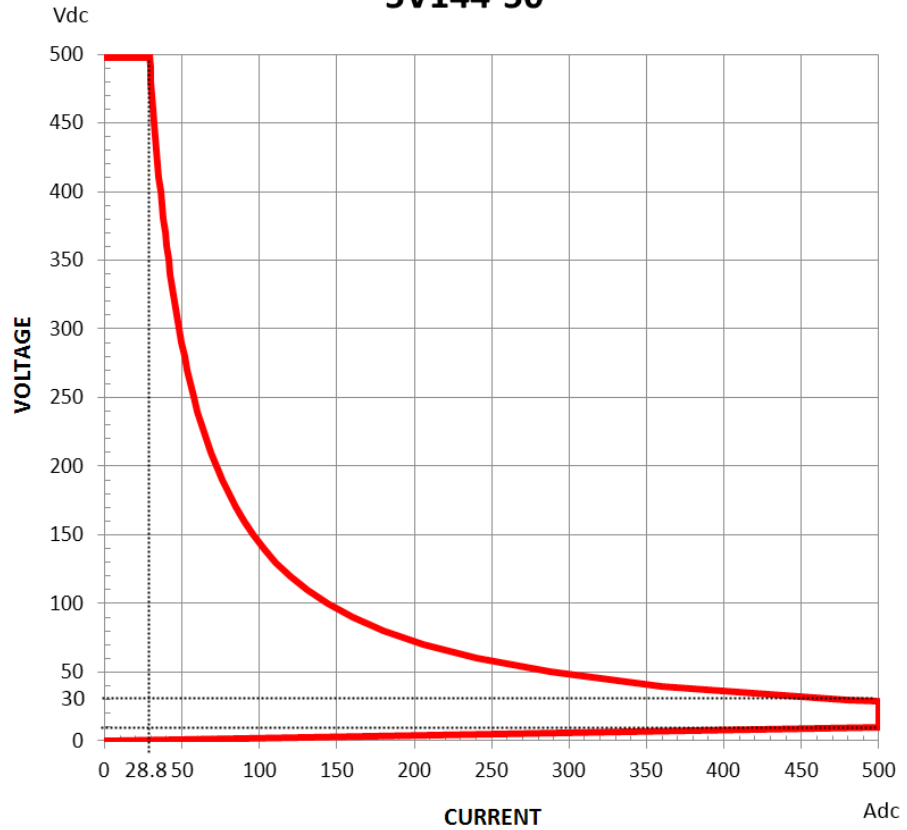
## 5V126-42 - Low Voltage



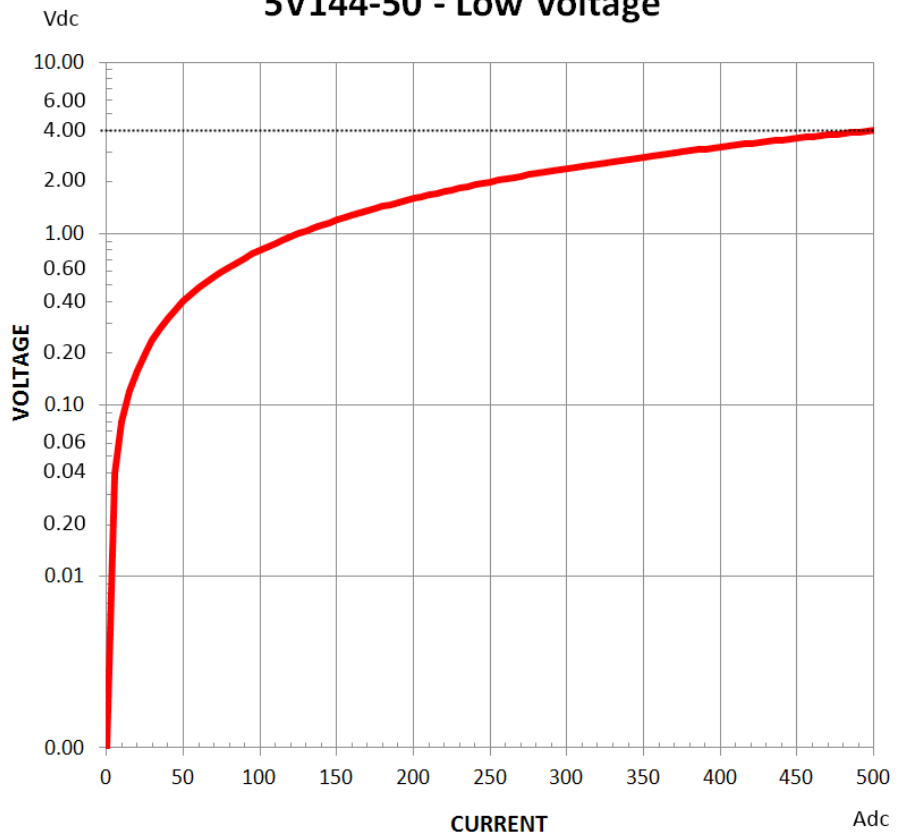
# MODEL 5V144-50 RATING CHARTS

12600W, 500V, 500A

## 5V144-50



## 5V144-50 - Low Voltage





## Service and Support

Adaptive Power Systems' customer support is second to none. Our Customer Support Program provides the training, repair, calibration, and technical support services that our customers value. So, in addition to receiving the right test equipment, our customers can also count on excellent support before, during and after the sale. With company owned support and service centers around the world, support is never far away.

Complete calibration and repair services are offered at our US, European and Chinese manufacturing facilities (see contact info below). Calibrations are to original factory specifications and are traceable to NIST (National Institute of Standards and Technology).

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