

27 July 2018

## Handling and Servicing Safety-Related Product Bulletin

### **Product Affected:**

**Genesys™ 3U 10kW/15kW products with rated output voltage 600V or below.**  
**Genesys™ 2U 3.3kW/5kW products with input voltage 400VAC or 480VAC**  
**All models of GENESYS+™ 5KW**

**This notice consists of 9**

**Product other than that identified in this document is not affected.**

Dear Sir or Madam:

TDK-Lambda has become aware that a residual voltage may be present between the output terminals of the affected Genesys™ 3.3/5/10/15kW and GENESYS+™ 5KW power supplies and chassis ground despite the fact that the power supply has been switched OFF or even disconnected from the AC line for a significant time. Please read this Bulletin carefully and perform the required actions identified in this Bulletin to avoid any potential hazards resulting from the residual voltage on the output terminals.

While we believe the residual energy level is insufficient to cause serious injury, it may still cause a painful shock if the output is discharged through contact.

Please immediately inform any persons with access to these power supplies and update your handling instructions with the following precautions:

Before any handling of the output terminals, please take care to always disconnect the AC input and make a brief electrical connection (short circuit) from both the positive and negative output terminals to chassis ground, in order to discharge any residual voltage which might exist between the output terminals and chassis ground.

On the following pages you will find further output discharge instructions.

In order to assure the safe use of the product we are making available a warning label, to install next to the output terminals, and also a small kit which can easily be installed on the outside of the power supply which will automatically discharge any residual voltage.

**To receive the warning label and kit please contact [kit@emea.tdk-lambda.com](mailto:kit@emea.tdk-lambda.com)**

Please provide your shipping address, the number of Genesys™ 3.3/5kW kits, the number of Genesys™ 10/15KW kits and the number of GENESYS+™ 5kW kits that you require. Alternatively, if you would like TDK-Lambda assistance with this retrofit, please contact your local TDK-Lambda office.

Please note that, only for Genesys™ 10/15kW products, the installation of this kit will reduce the insulation resistance between output and ground from >100 MΩ to a typical value of 20 MΩ; this change is unlikely to change any performance characteristics of the power supply in your application but we encourage you to contact your local TDK-Lambda technical support resources to discuss any concerns you might have.

TDK-Lambda will also be applying a corrective action inside the power supply to automatically discharge residual voltage, so Genesys™ 10/15kW products, Genesys™ 3.3/5kW, GENESYS+™ 5KW products shipped after July 1<sup>st</sup>, 2018 will not need the external kit. New Genesys™ 10/15kW products shipped after this date will also have the reduced 20MΩ typical insulation resistance.

If you have any questions regarding this notice or the affected products please contact the following

**For technical support please contact [kitsupport@emea.tdk-lambda.com](mailto:kitsupport@emea.tdk-lambda.com)**

We apologise for the inconvenience this Notice may cause and assure you of our best intentions at all times

## Products Affected

### Genesys 3U 10kW/15kW:

#### GEN 3U 10kW:

GEN-7.5-1000-xxx-xPxxx  
GEN-10-1000-xxx-xPxxx  
GEN-12.5-800-xxx-xPxxx  
GEN-20-500-xxx-xPxxx  
GEN-25-400-xxx-xPxxx  
GEN-30-333-xxx-xPxxx  
GEN-40-250-xxx-xPxxx  
GEN-50-200-xxx-xPxxx  
GEN-60-167-xxx-xPxxx  
GEN-80-125-xxx-xPxxx  
GEN-100-100-xxx-xPxxx  
GEN-125-80-xxx-xPxxx  
GEN-150-66-xxx-xPxxx  
GEN-200-50-xxx-xPxxx  
GEN-250-40-xxx-xPxxx  
GEN-300-33-xxx-xPxxx  
GEN-400-25-xxx-xPxxx  
GEN-500-20-xxx-xPxxx  
GEN-600-17-xxx-xPxxx

#### GEN 3U 15kW:

GEN-30-500-xxx-xPxxx  
GEN-40-375-xxx-xPxxx  
GEN-50-300-xxx-xPxxx  
GEN-60-250-xxx-xPxxx  
GEN-80-187.5-xxx-xPxxx  
GEN-100-150-xxx-xPxxx  
GEN-125-120-xxx-xPxxx  
GEN-150-100-xxx-xPxxx  
GEN-200-75-xxx-xPxxx  
GEN-250-60-xxx-xPxxx  
GEN-300-50-xxx-xPxxx  
GEN-400-37.5-xxx-xPxxx  
GEN-500-30-xxx-xPxxx  
GEN-600-25-xxx-xPxxx

### Genesys 2U 3.3kW

#### GEN 2U 3.3kW Ue=400VAC:

GEN-8-400-xxx-3P400  
GEN-10-330-xxx-3P400  
GEN-15-220-xxx-3P400  
GEN-20-165-xxx-3P400  
GEN-30-110-xxx-3P400  
GEN-40-85-xxx-3P400  
GEN-60-55-xxx-3P400  
GEN-80-42-xxx-3P400  
GEN-100-33-xxx-3P400  
GEN-150-22-xxx-3P400  
GEN-200-16.5-xxx-3P400  
GEN-300-11-xxx-3P400  
GEN-600-5.5-xxx-3P400

#### GEN 2U 3.3kW Ue=480VAC

GEN-8-400-xxx-3P480  
GEN-10-330-xxx-3P480  
GEN-15-220-xxx-3P480  
GEN-20-165-xxx-3P480  
GEN-30-110-xxx-3P480  
GEN-40-85-xxx-3P480  
GEN-60-55-xxx-3P480  
GEN-80-42-xxx-3P480  
GEN-100-33-xxx-3P480  
GEN-150-22-xxx-3P480  
GEN-200-16.5-xxx-3P480  
GEN-300-11-xxx-3P480  
GEN-600-5.5-xxx-3P480

**Genesys 2U 5kW:**

**GEN 2U 5kW Ue=400VAC:**

GEN-8-600-xxx-3P400  
GEN-10-500-xxx-3P400  
GEN-16-310-xxx-3P400  
GEN-20-250-xxx-3P400  
GEN-30-170-xxx-3P400  
GEN-40-125-xxx-3P400  
GEN-60-85-xxx-3P400  
GEN-80-65-xxx-3P400  
GEN-100-50-xxx-3P400  
GEN-150-34-xxx-3P400  
GEN-200-25-xxx-3P400  
GEN-300-17-xxx-3P400  
GEN-400-13-xxx-3P400  
GEN-500-10-xxx-3P400  
GEN-600-8.5-xxx-3P400

**GEN 2U 5kW Ue=480VAC:**

GEN-8-600-xxx-3P480  
GEN-10-500-xxx-3P480  
GEN-16-310-xxx-3P480  
GEN-20-250-xxx-3P480  
GEN-30-170-xxx-3P480  
GEN-40-125-xxx-3P480  
GEN-60-85-xxx-3P480  
GEN-80-65-xxx-3P480  
GEN-100-50-xxx-3P480  
GEN-150-34-xxx-3P480  
GEN-200-25-xxx-3P480  
GEN-300-17-xxx-3P480  
GEN-400-13-xxx-3P480  
GEN-500-10-xxx-3P480  
GEN-600-8.5-xxx-3P480

**Genesys+5KW:**

G-10-500-xxx-xxx-x  
G-20-250-xxx-xxx-x  
G-30-170-xxx-xxx-x  
G-40-125-xxx-xxx-x  
G-60-85-xxx-xxx-x  
G-80-65-xxx-xxx-x  
G-100-50-xxx-xxx-x  
G-150-34-xxx-xxx-x  
G-300-17-xxx-xxx-x  
G-600-8.5-xxx-xxx-x

# Output Discharge Instructions

## Genesys™ 3U 10kW/15kW

**1 – Remove AC input power from unit**



**2- Use an insulated clip lead jumper (~30cm) as shown.**



**3- Connect one end to Ground Stud**



**4- Connect other end to negative O/P. Hold for 2 seconds.**



**5 - Connect other end to positive O/P. Hold for 2 seconds.**

**Residual Energy  
Discharge  
Process  
Steps**

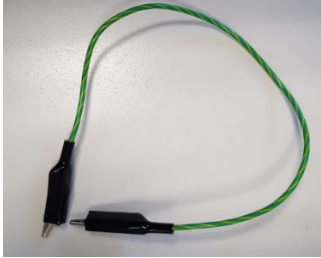
## Output Discharge Instruction Genesys™ 2U 3.3kW and 5kW 3-phase 400V and 480V

### **Step 1:**

**Remove AC input power from unit!**

### **Step 2:**

Use an insulated clip lead jumper ~30cm (not included) as shown:



Models with output voltage  $\leq 100V$

### **Step 3:**

Connect one end to GROUND stud:



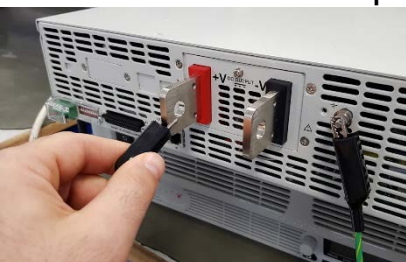
### **Step 4:**

Connect other end to negative output terminal and hold for 2 seconds.



### **Step 5:**

Connect other end to positive output terminal and hold for 2 seconds.

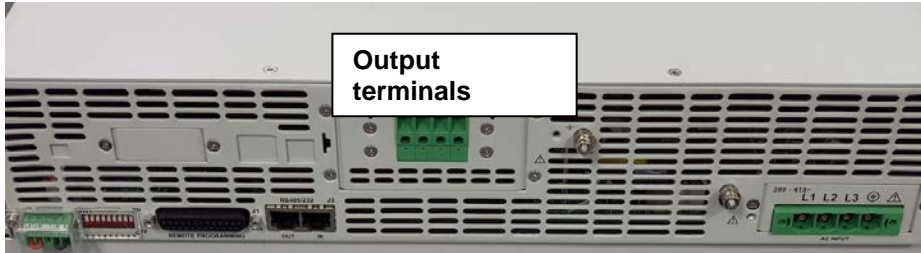


## **Models with output voltage > 100V**

The output terminals are difficult to access.

Therefore, please discharge the outputs where they are connected to the application system and accessible.

Use the same method as described in steps 3 to 5.



## Output Discharge Instruction GENESYS+™ 5kW

### Step 1:

**Remove AC input power from unit!**

### Step 2:

Use an insulated clip lead jumper ~30cm (not included) as shown:



Models with output voltage  $\leq 100V$

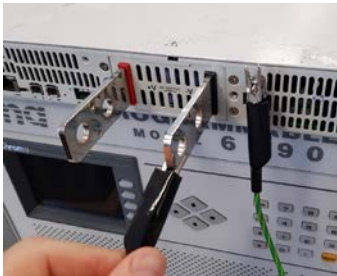
### Step 3:

Connect one end to GROUND stud:



### Step 4:

Connect other end to negative output terminal and hold for 2 seconds.



### Step 5:

Connect other end to positive output terminal and hold for 2 seconds.





## **Models with output voltage > 100V**

The output terminals are difficult to access.

Therefore, please discharge the outputs where they are connected to the application system and accessible.

Use the same method as described in steps 3 to 5.

