

# **GENESYS™ Series**

**Programmable DC Power Supplies**

**G1.7 - 5kW in 1U 60-100V, 17-85A**

**PARALLEL KIT INSTRUCTION MANUAL**

**The manual covers kit options:**

**G/P-6U-60-100V**



## 1.1 General

Parallel kit is supplied separately from the power supply packing according to order.

The usage of parallel kit is according to customer's needs.

## 1.2 Advanced Parallel

For parallel connection, refer to advanced parallel chapter in the **GENESYS™** series User Manual.

## 1.3 Product Safety Instructions

Safety approvals are valid for **GENESYS™** single unit only. These are not valid for parallel kit assembly.

When using a paralleling kit with a protective bracket, it must be correctly assembled, as described further in this document.

## 1.4 Assembly Instructions

The supplied kit is used for standard and blank panel options. Follow the instructions carefully according to power supply model.

### 1.4.1 **G/P-6U-60-100V - Assembly Instructions for six 60V-100V units in Parallel**

#### 1.4.1.1 Components List

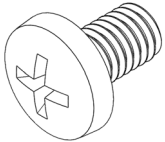
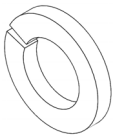
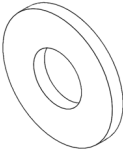

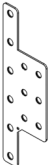
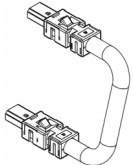
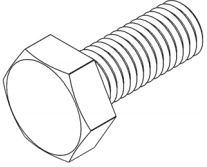
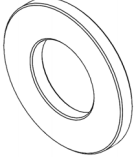
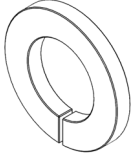
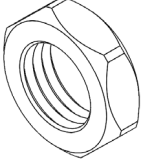
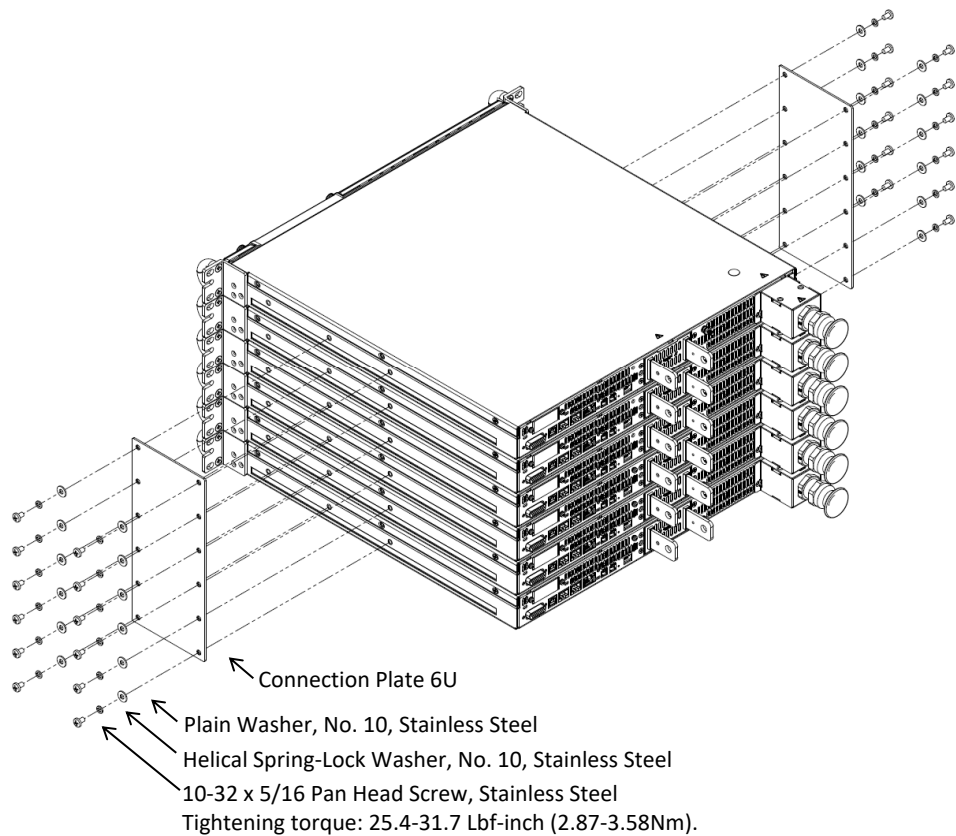
Image	Component	Quantity
	10-32 x 5/16 Pan Head Screw, Stainless Steel	24
	Helical Spring-Lock Washer, No. 10, Stainless Steel	24
	Plain Washer, No. 10, Stainless Steel	24
	Connection Plate 6U	2
	Output Bus Bar Plate	2
	Paralleling Cable	5

Image	Component	Quantity
	M8 x 25 Hexagon Bolt, Stainless Steel	12
	Plain Washer, M8, Stainless Steel	24
	Helical Spring-Lock Washer, M8, Stainless Steel	12
	Hexagon Nut, M8, Stainless Steel	12

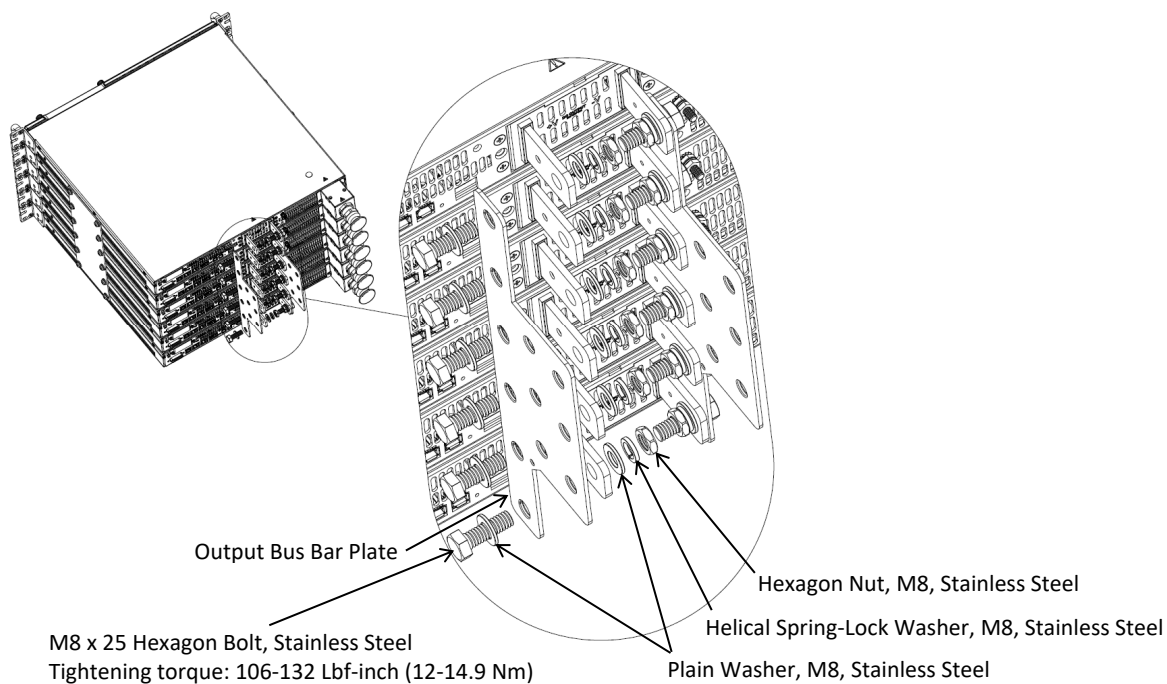
### 1.4.1.2 Installation Steps

Attach connection plates, one on each side of the power supplies, using 24 pan head screws, 24 helical spring-lock washers and 24 plain washers as illustrated in Figure 1.



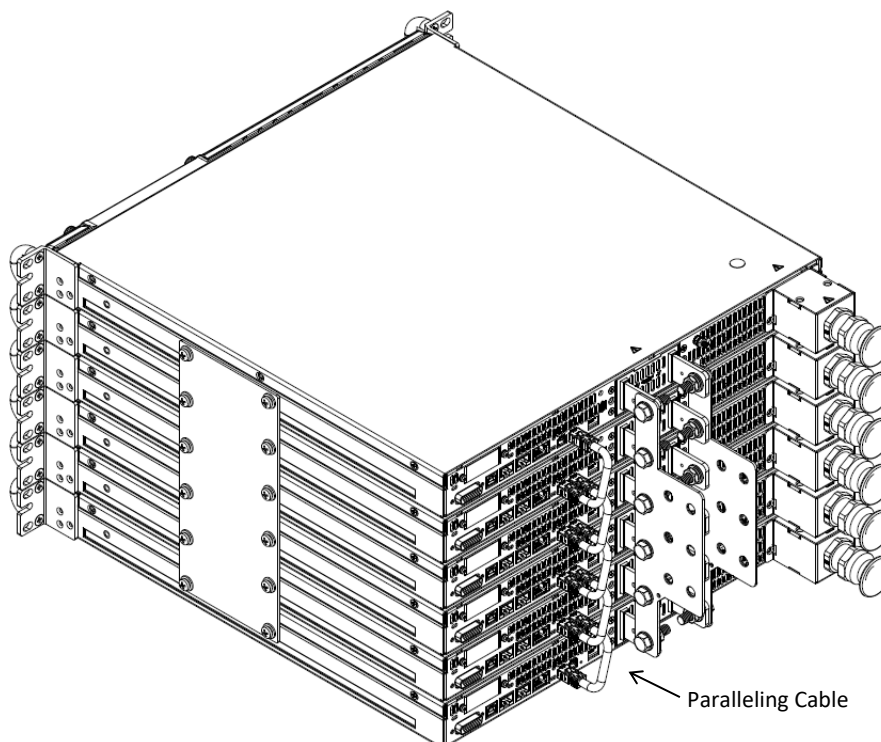
**Figure 1: Six 60V-100V Units Connection Plates 6U Assembly**

1. Attach output bus bars plates, one on each sextet terminals, using 12 hexagon bolts, 24 plain washers, 12 helical spring-lock washers and 12 hexagon nuts as illustrated in Figure 2.



**Figure 2: Six 60V-100V Units Output Bus Bars Plates Assembly**

2. Connect five paralleling cables from top unit M connector to bottom unit S connector as illustrated in Figure 3.



**Figure 3: Six 60V-100V Units Paralleling Cable Connection**