

GLENTEK DC BUS POWER SUPPLY (RECTIFIER) ASSEMBLIES **MODELS: GP8600-76**

Revision: 2/28/23

This section explains the model numbering system for Glentek's GP8600-76 DC bus power supply (rectifier) assemblies. The model numbering system is designed so that you, our customer, will be able to quickly and accurately create the model number for the DC bus power supply (rectifier) assembly that best suits your requirements. Complete the configuration code you require using the information on this page. After completing your model number, please contact a Glentek Sales Engineer to confirm that the model number you have created is correct.

GP8600 - 76 - **-** **-** **-**

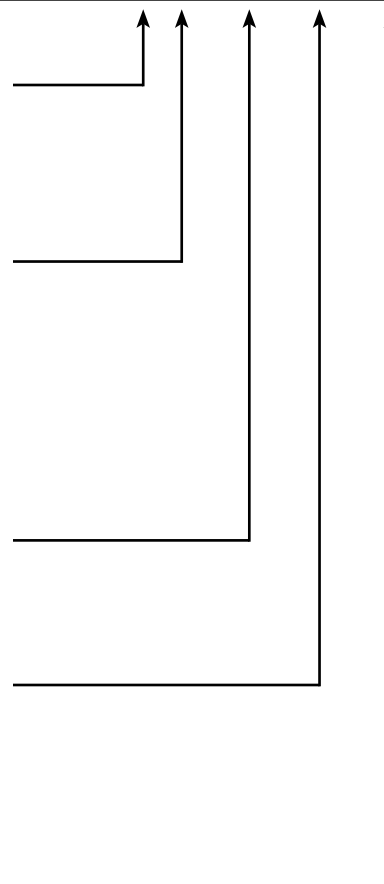
Input Voltage	
1	110-130 VAC
2	208-240 VAC
3	360-400 VAC
4	460-500 VAC

Continuous Output Current A (A_{RMS}) per axis ⁽¹⁾	
1	5 (4)
3	10 (7)
4	15 (11)
5	20 (14)
6	25 (18)
7	30 (22)
8	45 (32)

Package Configuration	
A	Built in Regen Clamp with Dumping Resistor
B	No Built in Regen Clamp
C	Custom

Number of Axes Utilized	
1	1 Axis
2	2 Axis
3	3 Axis
4	4 Axis
5	5 Axis

UL Recognized Component ⁽²⁾	
0	not UL Recognized
1	UL Recognized



NOTES:

⁽¹⁾ For continuous output current ratings in brushless mode, ratings for each model are listed as peak of the sine wave phase current values followed by the equivalent RMS phase current values (in parentheses). In brush or voicecoil mode, A is the current, and the RMS values (in parentheses) can be ignored. All output current ratings are for three-phase VAC inputs. If a single-phase VAC input is used, the total output current for all axes is limited to a maximum of 15 A cont. / 30 A peak.

⁽²⁾ See [pg. 2](#) for non-UL and UL Recognized Component combinations of input voltage, output current, and number of axes for SMB/SMC9G16 Gamma series drives.

⁽³⁾ See [pg. 3](#) for combinations of input voltage, output current, and number of axes for SMB/SMC9GE15 Gamma series drives.

ELECTRICAL RATINGS FOR USE WITH SMB/SMC9G16 GAMMA SERIES DRIVES

Input Voltage		Output Current, per axis ⁽¹⁾			UL Recognized Component ⁽⁴⁾	Max. No. of Axes		Module Heatsink Type (Derating Factor) ⁽²⁾
VAC	Model Code ⁽³⁾	Cont. A (A _{RMS})	Peak A (A _{RMS})	Model Code ⁽³⁾		Non-UL	UL	
110-130	1	5 (3.5)	10 (7.1)	1	•	5	5	L-Bracket (1)
110-130	1	10 (7.1)	20 (14.1)	3	•	5	5	L-Bracket (1)
110-130	1	15 (10.6)	30 (21.2)	4	•	5	5	L-Bracket (2)
110-130	1	20 (14.1)	40 (28.3)	5	•	5	5	Short Fin (1)
110-130	1	25 (17.7)	50 (35.4)	6	•	5	2	Short Fin (2)
110-130	1	30 (21.2)	60 (42.4)	7	•	2	2	Long Fin (1)
110-130	1	45 (31.8)	80 (56.6)	8	•	2	2	Long Fin (2)
208-240	2	5 (3.5)	10 (7.1)	1	•	5	5	L-Bracket (1)
208-240	2	10 (7.1)	20 (14.1)	3	•	5	5	L-Bracket (2)
208-240	2	15 (10.6)	30 (21.2)	4	•	5	5	L-Bracket (3)
208-240	2	20 (14.1)	40 (28.3)	5	•	5	5	Short Fin (2)
208-240	2	25 (17.7)	50 (35.4)	6	•	5	2	Short Fin (3)
208-240	2	30 (21.2)	60 (42.4)	7	•	2	2	Long Fin (2)
208-240	2	45 (31.8)	80 (56.6)	8	•	2	2	Long Fin (3)
360-400	3	5 (3.5)	10 (7.1)	1	•	5	5	L-Bracket (2)
360-400	3	10 (7.1)	20 (14.1)	3	•	5	5	Short Fin (2)
360-400	3	15 (10.6)	30 (21.2)	4	•	5	2	Short Fin (3)
360-400	3	20 (14.1)	40 (28.3)	5	N/A	2	N/A	Long Fin (2)
360-400	3	25 (17.7)	50 (35.4)	6	N/A	2	N/A	Long Fin (3)
360-400	3	30 (21.2)	60 (42.4)	7	N/A	2	N/A	Long Fin (4)
460-500	4	5 (3.5)	10 (7.1)	1	•	5	5	L-Bracket (3)
460-500	4	10 (7.1)	20 (14.1)	3	•	5	5	Short Fin (3)
460-500	4	15 (10.6)	30 (21.2)	4	•	2	2	Long Fin (3)
460-500	4	20 (14.1)	40 (28.3)	5	N/A	2	N/A	Long Fin (4)

Notes:

⁽¹⁾ The column **Cont. Output Current** is the continuous current and the column **Peak Output Current** is the intermittent peak current for a single module. For output current ratings in brushless mode, ratings for each model are listed as peak of the sine wave phase current values followed by the equivalent RMS phase current values (in parentheses). In brush or voicecoil mode, A is the current, and the RMS values (in parentheses) can be ignored. All output current ratings are for three-phase VAC inputs. If a single-phase VAC input is used, the total output current for all axes is limited to a maximum of 15 A cont. / 30 A peak.

⁽²⁾ Three module heatsink types, L-Bracket (LB), Short Fin (SF), and Long Fin (LF) are available depending on the input voltage and output current. There are 4 standard categories for ambient operating temperature and current derating denoted by the number following the heatsink type. All categories require forced air cooling.

Category 1: 0 to 60 °C without derating. Derate current 10% per °C over 60 °C.

Category 2: 0 to 50 °C without derating. Derate current 5% per °C over 50 °C.

Category 3: 0 to 40 °C without derating. Derate current 3% per °C over 40 °C.

Category 4: 0 to 30 °C without derating. Derate current 2.5% per °C over 30 °C.

Special: Contact Glentek for models with a lower operating temperature limit of -40 °C.

⁽³⁾ Model Codes are used on [pg. 1](#) for model numbering

⁽⁴⁾ UL Recognized Components are available as an option for the DC bus power supply (rectifier) assembly. For input voltages of 110-240 VAC the maximum input current is 33 A_{RMS}. For input voltages of 360-500 VAC the maximum input current is 16 A_{RMS}.

⁽⁵⁾ Bus power logic (SMB models) not available for input voltages of greater than 360 VAC.

ELECTRICAL RATINGS FOR USE WITH SMB/SMC9GE15 GAMMA SERIES DRIVES

Input Voltage		Output Current, per axis ⁽¹⁾			Max. No. of Axes	Module Heatsink Type (Derating Factor) ⁽²⁾
VAC	Model Code ⁽³⁾	Cont. A (A _{RMS})	Peak A (A _{RMS})	Model Code ⁽³⁾		
110-130	1	5 (3.5)	10 (7.1)	1	5	L-Bracket (1)
110-130	1	10 (7.1)	20 (14.1)	3	5	L-Bracket (1)
110-130	1	15 (10.6)	30 (21.2)	4	5	L-Bracket (2)
110-130	1	20 (14.1)	40 (28.3)	5	5	Short Fin (1)
110-130	1	25 (17.7)	50 (35.4)	6	5	Short Fin (2)
208-240	2	5 (3.5)	10 (7.1)	1	5	L-Bracket (1)
208-240	2	10 (7.1)	20 (14.1)	3	5	L-Bracket (2)
208-240	2	15 (10.6)	30 (21.2)	4	5	L-Bracket (3)
208-240	2	20 (14.1)	40 (28.3)	5	5	Short Fin (2)
208-240	2	25 (17.7)	50 (35.4)	6	5	Short Fin (3)
360-400	3	5 (3.5)	10 (7.1)	1	5	L-Bracket (2)
360-400	3	10 (7.1)	20 (14.1)	3	5	Short Fin (2)
360-400	3	15 (10.6)	30 (21.2)	4	5	Short Fin (3)
360-400	3	20 (14.1)	40 (28.3)	5	2	Long Fin (2)
360-400	3	25 (17.7)	50 (35.4)	6	2	Long Fin (3)

Notes:

⁽¹⁾ The column Cont. Output Current is the continuous current and the column Peak Output Current is the intermittent peak current for a single module. For output current ratings in brushless mode, ratings for each model are listed as peak of the sine wave phase current values followed by the equivalent RMS phase current values (in parentheses). In brush or voicecoil mode, A is the current, and the RMS values (in parentheses) can be ignored. All output current ratings are for three-phase VAC inputs. If a single-phase VAC input is used, the total output current for all axes is limited to a maximum of 15 A cont. / 30 A peak.

⁽²⁾ Three module heatsink types, L-Bracket (LB), Short Fin (SF), and Long Fin (LF) are available depending on the input voltage and output current. There are 4 standard categories for ambient operating temperature and current derating denoted by the number following the heatsink type. All categories require forced air cooling.

Category 1: 0 to 60 °C without derating. Derate current 10% per °C over 60 °C.

Category 2: 0 to 50 °C without derating. Derate current 5% per °C over 50 °C.

Category 3: 0 to 40 °C without derating. Derate current 3% per °C over 40 °C.

Category 4: 0 to 30 °C without derating. Derate current 2.5% per °C over 30 °C.

Special: Contact Glentek for models with a lower operating temperature limit of -40 °C.

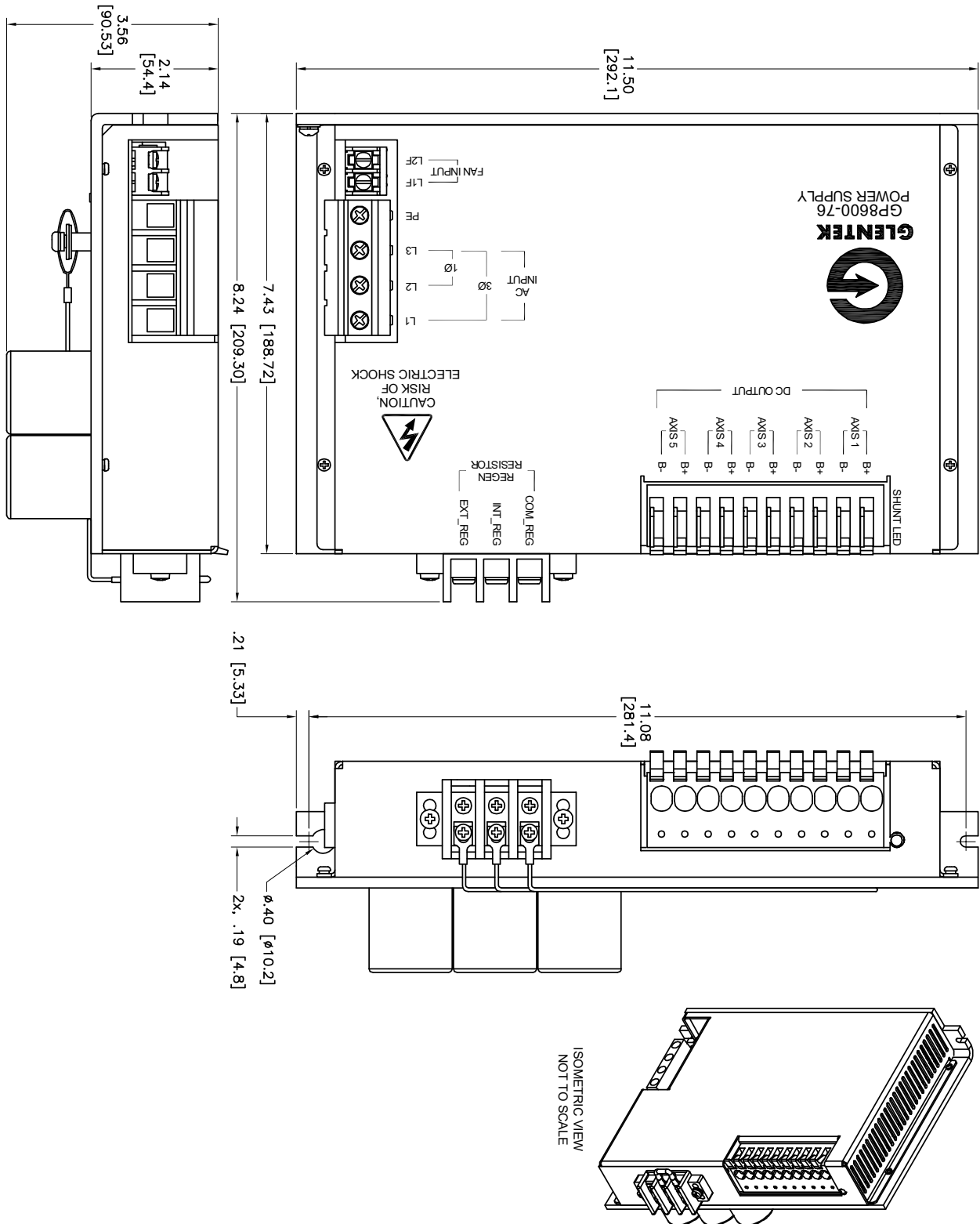
⁽³⁾ Model Codes are used on [pg. 1](#) for model numbering

⁽⁴⁾ Bus power logic (SMB models) not available for input voltages of greater than 360 VAC.

DIMENSIONS

GP8600-76 DC Bus Power Supply (Rectifier) Assembly

GP8600-76 POWER SUPPLY



DRAWING # 9GE15-1010-019

SCALE: 0.875:1

DRAWN BY: N.T.

DATE: 03FEB23

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

TOLERANCES
AS FOLLOWS:

DECIMAL: .XX = ± 0.01
.XXX = ± 0.005

ANGULAR: < = $\pm 0.5^\circ$