

## Design Change Notification

October 27<sup>th</sup>, 2022

To: Sanyo Denki America Cooling Distributors

Product: BLDC FAN MOTOR \_\_\_\_\_

Model: San Ace 120 (9GV) 120mm sq. x 25mm thick  
(Please refer Attached Sheet for a complete part number list.)

SANYO DENKI CO.,LTD.  
Design Dept., Cooling Systems Div.

Approved	Checked	Designed
		

SANYO DENKI America, Inc.  
Cooling Systems Division

No.	Contents	Before Change	After Change	Description
1	Motor drive IC, electronic parts, Motor Windings and PWB	Use motor drive IC manufactured by ON-Semiconductor.	Use motor drive IC manufactured by Sentelic or Microchip.	Change to the motor drive IC due to discontinuation of production by the semiconductor manufacturer. Also change to some electric parts except IC, Motor windings and PWB due to the change of the motor drive IC.
2	Specifications	See the Attached Sheet.	See the Attached Sheet.	
3	Implementation Date			Implementation Date: From May, 2023 production (Estimated). Please note that the changeover schedule to new IC may change according to the number of products in the inventory.

**No. A0052859 - Attached Sheet 1**

[MODEL LIST]

San Ace 120 (9GV) – 120mm x 25mm thick

MODEL	Change contents
9GV1212G401 9GV1212G4011 9GV1212G402 9GV1212G4021	Attached Sheet 2
9GV1212P4G01 9GV1212P4G011 9GV1212P4G03 9GV1212P4G04 9GV1212P4G06 9GV1212P4G08 9GV1212P4G10 9GV1212P4G11 9GV1212P4G111 9GV1212P4G131 9GV1212P4G141 9GV1212P4G15 9GV1212P4G151 9GV1212P4G16 9GV1212P4G161 9GV1212P4G171 9GV1212P4G18 9GV1212P4G01-A01 9GV1212P4G01-A02	Attached Sheet 3
9GV1224G401 9GV1224G402 9GV1224G4021 9GV1224G403 9GV1224G4031 9GV1224G4D01 9GV1224M403	Attached Sheet 4
9GV1224P4G01 9GV1224P4G011 9GV1224P4G04 9GV1224P4G06 9GV1224P4G10 9GV1224P4G01-A01 1022-115863	Attached Sheet 5

MODEL	Change contents
9GV1248G401 9GV1248G4011 9GV1248G402 9GV1248G4D031 9GV1248H401 9GV1248H402 9GV1248H4D01 9GV1248G4D031-A01	Attached Sheet 6
9GV1248P4J01 9GV1248P4J011 9GV1248P4J031 9GV1248P4J04 9GV1248P4J041 9GV1248P4J05 9GV1248P4J051 9GV1248P4J06 9GV1248P4J061 9GV1248P4J07 9GV1248P4J08 109-1097 109-U0027-12	Attached Sheet 7
9GV1248P1G01 9GV1248P4G011 9GV1248P4G041 9GV1248P4G041-A 9GV1248P4G06 9GV1248P4G09 9GV1248P4G10 9GV1248P4G12 9GV1248P4H01 9GV1248P4H011 9GV1248P4H05 9GV1248P4H06	Attached Sheet 8

**No. A0052859 - Attached Sheet 2**

[MODEL]

9GV1212G401, 9GV1212G4011, 9GV1212G402, 9GV1212G4021

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11967V	STL6600 or STL6800
	Manufacture	On-semiconductor	Sentelic
Operating voltage		No change	
Electrical current		No change	
Speed		No change	
Operating temp.		No change	
Sound pressure level		No change	
Control terminal		Non-applicable	
Air flow – static pressure character		No change	
PWM duty cycle - Speed characteristic		Non-applicable	
Sensor spec.		No change	

**No. A0052859 - Attached Sheet 3**

[MODEL]

9GV1212P4G01, 9GV1212P4G011, 9GV1212P4G03, 9GV1212P4G04, 9GV1212P4G06, 9GV1212P4G08,  
 9GV1212P4G10, 9GV1212P4G11, 9GV1212P4G111, 9GV1212P4G131, 9GV1212P4G141, 9GV1212P4G15,  
 9GV1212P4G151, 9GV1212P4G16, 9GV1212P4G161, 9GV1212P4G171, 9GV1212P4G18,  
 9GV1212P4G01-A01, 9GV1212P4G01-A02

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11967V	STL6600 or STL6800
	Manufacture	On-semiconductor	Sentelic
Operating voltage		No change	
Electrical current		No change	
Speed		No change	
Operating temp.		No change	
Sound pressure level		No change	
Control terminal		No change	
Air flow – static pressure character		No change	
PWM duty cycle - Speed characteristic		No change	
Sensor spec.		No change	

**No. A0052859 - Attached Sheet 4**

[MODEL]

9GV1224G401, 9GV1224G402, 9GV1224G4021, 9GV1224G403, 9GV1224G4031,  
 9GV1224G4D01,  
 9GV1224M403

[Contents of change]

		Before Change	After Change
Motor drive IC	Pulse sensor Or sensor-less type	LB11867FV	STL6600 or STL6800
	Lock sensor type	LB11867RV	
	Manufacture	On-semiconductor	Sentelic
Operating voltage		No change	
Electrical current		No change	
Speed		No change	
Operating temp.		No change	
Sound pressure level		No change	
Control terminal		Non-applicable	
Air flow – static pressure character		No change	
PWM duty cycle - Speed characteristic		Non-applicable	
Sensor spec.		No change	
Life Expectancy		No change	

**No. A0052859 - Attached Sheet 5**

[MODEL]

9GV1224P4G01, 9GV1224P4G011, 9GV1224P4G04, 9GV1224P4G06, 9GV1224P4G10,  
 9GV1224P4G01-A01, 1022-115863

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11867FV	STL6600 or STL6800
	Manufacture	On-semiconductor	Sentelic
Operating voltage		No change	
Electrical current		No change	
Speed		No change	
Operating temp.		No change	
Sound pressure level		No change	
Control terminal		No change	
Air flow – static pressure character		No change	
PWM duty cycle - Speed characteristic		No change	
Sensor spec.		No change	

**No. A0052859 - Attached Sheet 6**

[MODEL]

9GV1248G401, 9GV1248G4011, 9GV1248G402,

9GV1248G4D031,

9GV1248H401, 9GV1248H402,

9GV1248H4D01,

9GV1248G4D031-A01

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11967V	PIC16F1823
	Manufacture	On-semiconductor	Microchip
Operating voltage		No change	
Electrical current		No change	
Speed		No change	
Operating temp.		No change	
Sound pressure level		No change	
Control terminal		Non-applicable	
Air flow – static pressure character		No change	
PWM duty cycle - Speed characteristic		Non-applicable	
Sensor spec.		No change	

**No. A0052859 - Attached Sheet 7**

[MODEL]

9GV1248P4J01, 9GV1248P4J011, 9GV1248P4J031, 9GV1248P4J04, 9GV1248P4J041, 9GV1248P4J05,  
 9GV1248P4J051, 9GV1248P4J06, 9GV1248P4J061, 9GV1248P4J07, 9GV1248P4J08,  
 109-1097, 109-U0027-12

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11850	PIC16F1823
	Manufacture	On-semiconductor	Microchip
Operating voltage		No change	
Electrical current		No change	
Speed		No change	
Operating temp.		No change	
Sound pressure level		No change	
Control terminal		No change	
Air flow – static pressure character		No change	
PWM duty cycle - Speed characteristic		No change	
Sensor spec.		No change	



**No. A0052859 - Attached Sheet 8**

[MODEL]

9GV1248P4G01, 9GV1248P4G011, 9GV1248P4G041, 9GV1248P4G041-A, 9GV1248P4G06, 9GV1248P4G09,  
 9GV1248P4G10, 9GV1248P4G12,  
 9GV1248P4H01, 9GV1248P4H011, 9GV1248P4H05, 9GV1248P4H06

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11967V	PIC16F1823
	Manufacture	On-semiconductor	Microchip
Operating voltage		No change	
Electrical current		No change	
Speed		No change	
Operating temp.		No change	
Sound pressure level		No change	
Control terminal		No change	
Air flow – static pressure character		No change	
PWM duty cycle - Speed characteristic		No change	
Sensor spec.		No change	