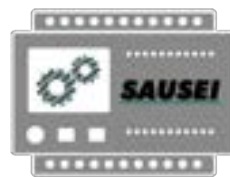




# Industrial DIN Rail Power Supply

Force-GT Series



[www.sausei.com](http://www.sausei.com)



[www.DeltaPSU.com](http://www.DeltaPSU.com)





## About Power and System Business Group (PSBG)

- World's leading provider of power products and solutions
- First power product launched in 1983



**P**ower Conversion



**S**mart Drive & Control



**B**attery Charger



**G**reen Energy

## About Delta

Delta, founded in 1971, is a global provider of power and thermal management solutions. Its mission statement, "To provide innovative, clean and energy-efficient solutions for a better tomorrow," focuses on addressing key environmental issues such as global climate change. As an energy-saving solutions provider with core competencies in power electronics and automation, Delta's business categories include Power Electronics, Automation, and Infrastructure.

Delta offers some of the most energy efficient power products in the industry, including switching power supplies with efficiency over 90%, telecom power with up to 98%, and PV inverters with up to 99.2% efficiency. We have also developed the world's first server power supply certified as 80 Plus Titanium.

In response to the challenge of climate change, Delta will remain committed to the research and development of innovative, energy-saving products, solutions and services that contributing substantially to the sustainable development of mankind.

## Business Categories



### Power Electronics

- Components
- Power and System
- Fan & Thermal Management
- Automotive Electronics
- **Innertek**



### Automation

- Industrial Automation
- Building Automation



### Infrastructure

- ICT Infrastructure
- Energy Infrastructure & Industrial Solutions
- **vivitek**  
Vivo Color. Vivo Life.

## Empowering Your Life

PSBG offers cutting-edge power products and system to innovate cloud computing, network connectivity, client devices, industrial and medical industry, lighting, and appliances and e-mobility with global customers.



# Industrial DIN Rail Power Supply Force-GT Series

## Ultra Slim, Remarkable Efficiency

Force-GT Series offers single and three phase input models, a wide 120W ~ 960W power range, and high power efficiency of up to 95%. Its two single phase 480W models were certified with world-leading 80 PLUS 115V Industrial Platinum. The Series complies with multiple international safety certifications and is suitable for semiconductor manufacturing, precision machinery, industrial robots, and renewable energy facilities.



Ultra-slim design



Wide operating temperature and cold start.



Conformal coating on PCBAs



Full load temperature of up to 60°C



Built-in DC OK relay



High power density and efficiency



# Specifications

■ 1 Phase ■ 3 Phase

1 Phase		
		
Output Power: 120W Output Voltage: 12V / 24V / 48V	Output Power: 240W Output Voltage: 12V / 24V / 48V	Output Power: 480W Output Voltage: 24V / 48V

12V	Rated Power	120W	240W
Input	Input Voltage Range	90 ~ 264 V <sub>AC</sub>	
	Efficiency @ Full Load	93.0 % typ.@230 V <sub>AC</sub>	93.5 % typ.@230 V <sub>AC</sub>
Output	Output Voltage Range	12.0 ~ 14.0 V <sub>DC</sub>	
	Output Current	10.0A	20.0A
Protection	OVP / OCP / OTP	OVP : Latch mode / OCP : Auto-Recovery, CC mode / OTP : Latch mode	
Dimensions / H x W x D		123.6 x 30 x 116.8 mm	123.6 x 40 x 116.8 mm
Operation Temperature		-30 ° C ~ +70 ° C (-40 ° C Cold Start)	

24V	Rated Power	120W	240W	480W
Input	Input Voltage Range	90 ~ 264 V <sub>AC</sub>		
	Efficiency @ Full Load	93.5 % typ.@230 V <sub>AC</sub>	94.5 % typ.@230 V <sub>AC</sub>	95.0 % typ.@230 V <sub>AC</sub>
Output	Output Voltage Range	24.0 ~ 28.0 V <sub>DC</sub>		
	Output Current	5.0A	10.0A	20.0A
Protection	OVP / OCP / OTP	OVP : Latch mode / OCP : Auto-Recovery, CC mode / OTP : Latch mode		
Dimensions / H x W x D		123.6 x 30 x 116.8 mm	123.6 x 40 x 116.8 mm	123.6 x 56 x 116.8 mm
Operation Temperature		-30 ° C ~ +70 ° C (-40 ° C Cold Start)		

48V	Rated Power	120W	240W	480W
Input	Input Voltage Range	90 ~ 264 V <sub>AC</sub>		
	Efficiency @ Full Load	93.0 % typ.@230 V <sub>AC</sub>	94.5 % typ.@230 V <sub>AC</sub>	95.5 % typ.@230 V <sub>AC</sub>
Output	Output Voltage Range	48.0 ~ 55.0 V <sub>DC</sub>		
	Output Current	2.5A	5.0A	10.0A
Protection	OVP / OCP / OTP	OVP : Latch mode / OCP : Auto-Recovery, CC mode / OTP : Latch mode		
Dimensions / H x W x D		123.6 x 30 x 116.8 mm	123.6 x 40 x 116.8 mm	123.6 x 56 x 116.8 mm
Operation Temperature		-30 ° C ~ +70 ° C (-40 ° C Cold Start)		

3 Phase			
			
Output Power: 120W Output Voltage: 24V	Output Power: 240W Output Voltage: 24V	Output Power: 480W Output Voltage: 24V	Output Power: 960W Output Voltage: 24V

24V	Rated Power	120W	240W	480W	960W
Input Voltage	Input Voltage Range	3 x 320 ~ 575 V <sub>AC</sub> (3 Phase) or 2 x 340 ~ 575 (2 Phase)			
	Efficiency @ Full Load 3 x 400 V <sub>AC</sub> & 500 V <sub>AC</sub>	> 87.5 % typ.	> 90.5 % typ.	> 94 % typ.	> 94.5 % typ.
Output Voltage	Output Voltage Range	24.0 ~ 28.0 V <sub>DC</sub>			
	Output Current	5.0A	10.0A	20.0A	40.0A
Protection	OVP / OCP / OTP	OVP : Auto-Recovery / OCP : Auto-Recovery, CC mode / OTP : Auto-Recovery			
Dimensions / H x W x D		124 x 38 x 125.3 mm	124 x 50 x 125.3 mm	124 x 65 x 127.3 mm	124 x 110 x 128.7 mm
Operation Temperature		-25 ° C ~ +70 ° C (-40 ° C Cold Start)			



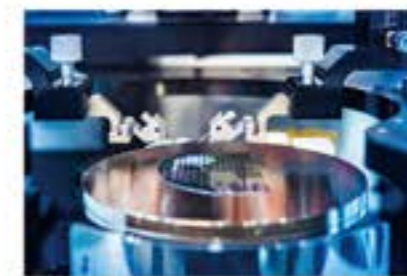
# Semiconductor Equipment



## Features

- Design complies with SEMI F47 for semiconductor equipment application.
- Long life electrolytic capacitor increases product lifetime and reliability.
- Ultra-slim design saves space for control cabinets.
- Built-in DC OK relay offers instant warning when output is abnormal.
- High efficiency and low no-load power reduce energy consumption.
- Full load operating temperature up to 60°C ensures stable power output under high-temperature environments.

## Applications



Semiconductor process equipment



Semiconductor automation



## Industrial Robots

### Features

- Ultra-slim design saves space for control cabinets.
- Conformal coating on PCBAs enhances harsh industrial environments resistance.
- Long life electrolytic capacitor to increase product lifetime and reliability.
- High efficiency and low no-load power reduce energy consumption and cost.
- Full load operating temperature up to 60°C ensures stable power output under high-temperature environments.
- Built-in DC OK relay offers instant warning when output is abnormal.

### Applications



Robotic arms



Collaborative robots  
(Cobots)



## Process Automation

### Features

- Ultra-slim design saves space for control cabinets.
- Conformal coating on PCBAs enhances harsh industrial environments resistance.
- Full load operating temperature up to 60°C ensures stable power output under high-temperature environments.
- Built-in DC OK relay offers instant warning when output is abnormal.
- Long life electrolytic capacitor increases product lifetime and reliability.
- High efficiency and low no-load power reduce energy consumption and cost.

### Applications



Petrochemical industry



Oil refinery

## Renewable Energy Facilities



### Features

- Ultra-slim design saves space for cabinets.
- Supports wide -30°C to 70°C operating temperature and -40°C cold start.
- Conformal coating on PCBAs enhances harsh industrial environments resistance.
- Full load operating temperature up to 60°C ensures stable power output under high-temperature environments.
- Long life electrolytic capacitor increases product lifetime and reliability.
- Film capacitors (X cap) with high temperature high humidity bias (THB) level evaluation improve outdoor durability.

### Applications



Solar power facilities



Wind power facilities





## EV Chargers

### Features

- Conformal coating on PCBAs enhances harsh industrial environments resistance.
- Supports wide -30°C to 70°C operating temperature and -40°C cold start.
- Ultra-slim design saves space for control cabinets.
- Built-in DC OK relay offers instant warning when output is abnormal.
- High efficiency and low no-load power reduce energy consumption and cost.
- Full load operating temperature up to 60°C ensures stable power output under high-temperature environments.
- Film capacitors (X cap) with high temperature high humidity bias (THB) level evaluation improve outdoor durability.

### Applications



AC EV chargers



DC EV chargers

# Product Selection Guide



## DIN Rail Power Supply Model Numbering

DR	F-	XXV	XXXW	□	G	B	A
DIN Rail	Product Series F - Force-GT Series	Output Voltage	Output Power	Input Phase 1- Single Phase 3- Three Phase	G - General Type	B - Screw Terminal	A - Delta Standard

## Product Selection Guide

Model	Phase			PFC	Output voltage	Output current	Output power	Input voltage range	Dimensions (H x W x D)
	1	2	3						
DRF-12V120W1GBA	•			•	12V	10.0A	120W	90-264V <sub>AC</sub>	123.6 x 30 x 116.8mm (4.87" x 1.18" x 4.60")
DRF-12V240W1GBA	•			•		20.0A	240W		123.6 x 40 x 116.8mm (4.87" x 1.57" x 4.60")

Model	Phase			PFC	Output voltage	Output current	Output power	Input voltage range	Dimensions (H x W x D)
	1	2	3						
DRF-24V120W1GBA	•			•	24V	5.0A	120W	90 - 264V <sub>AC</sub>	123.6 x 30 x 116.8mm (4.87" x 1.18" x 4.60")
DRF-24V240W1GBA	•			•		10.0A	240W		123.6 x 40 x 116.8mm (4.87" x 1.57" x 4.60")
DRF-24V480W1GBA	•			•		20.0A	480W		123.6 x 56 x 116.8mm (4.87" x 2.20" x 4.60")
DRF-24V120W3GBA		•	•		24V	5A	120W	3 x 320-575V <sub>AC</sub> (3 Phase) or 2 x 340-575V <sub>AC</sub> (2 Phase)	124 x 38 x 125.3mm (4.88" x 2.20" x 4.93")
DRF-24V240W3GBA		•	•			10.0A	240W		124 x 50 x 125.3mm (4.88" x 1.97" x 4.93")
DRF-24V480W3GBA		•	•	•		20.0A	480W		124 x 65 x 127.3mm (4.88" x 2.56" x 5.01")
DRF-24V960W3GBA		•	•	•		40.0A	960W		124 x 110 x 128.7mm (4.88" x 4.33" x 5.07")
DRF-48V120W1GBA	•			•	48V	2.5A	120W	90 - 264V <sub>AC</sub>	123.6 x 30 x 116.8mm (4.87" x 1.18" x 4.60")
DRF-48V240W1GBA	•			•		5.0A	240W		123.6 x 40 x 116.8mm (4.87" x 1.57" x 4.60")
DRF-48V480W1GBA	•			•		10.0A	480W		123.6 x 56 x 116.8mm (4.87" x 2.20" x 4.60")

\*The power supply can work with DC input

# Global Operations & Service



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