



# **Power Supplies**

The Right Power Supply for Your Application

# **Experience the Revolution**

Power supplies that adapt to your application





### Setting a new standard

Utilizing the latest advancements in technology, our new expandable line of PS6R power supplies are the first in the industry with DC-DC converters that provide multiple voltage outputs from one unit! Able to meet the ever-changing demands of your application, these power supplies combine massive power in a small package, providing space savings and less wiring time. The bottom line is a cost-effective solution with the flexibility to adapt to your changing power requirements as your application evolves!

As a leader in the industry, our engineers continuously research new and better solutions to increase the efficiency and safety of our products. At IDEC, power supplies are not just an "add-on" product; they are the foundation of a reliable application. We are committed to upholding the highest standards of manufacturing and design to produce a complete line of power supplies that outlast and outperform the competition!

#### **IDEC's History of Innovation**

- 1st with UL 508 approval
- 1st with finger-safe screw terminals
- 1st with SEMI F47 approval
- 1st expandable DIN rail power supply









### **PS6R: World's First Expandable Power Supply**

IDEC

PS9Z-6RM4

DEC

**POWER SUPPLY** 

PS6R-G24
IDEC CORPORATION

#### Universal Inputs

The power inputs have a range of 85-264V AC to 110-350V DC, and automatically adjust to the correct input power.

#### Alarm Output

NPN transistor output can be used to signal when output voltage is below 80% of rated value.

#### **Add-on Expansion Modules**

When multiple output voltages or extra wiring terminals are needed, choose from seven expansion modules instead of buying another power supply.



With a 93 percent efficiency rating, PS6R power supplies save energy while maintaining high output ratings and improving productivity. Saving energy at the component level drives energy savings throughout your application. Plus these power supplies generate less heat in the cabinet, reducing temperature stress on critical components.

OUTPUT

50/60Hz

#### ..... DC Low Indicator

Indicator turns on when the output voltage drops below 80% of the rated value.

#### **DC ON Indicator**

Indicator turns on when the unit is powered up.

#### ■ Output Voltage Adjustment

The output voltage can be easily adjusted within +/- 10% of the rated voltage.

#### **Output Channel**

PS6R power supplies have very low output ripples of less than 1% peak to peak.

#### Spring-up, Finger-safe Screw Terminals

These terminals provide additional safety, increase ease of use, and allow use of ring or fork terminals.





### The Right Power Supply For Your Application



### **PS6R Expandable**

- Expansion modules add flexibility
- 5V, 12V & 15V attachments
- 24V DC main output
- · Adjustable output voltage
- Slim and compact

- · DIN rail or direct mounting
- 93% efficiency
- Finger-safe screw terminals
- · Output alarm contact
- Class I, Div. 2, SEMI F47, UL61010



#### **PS5R-V Standard**

- Compact size
- Universal Voltage Input: 85-264V AC/100-370V DC
- · Approved for Class I Division 2 hazardous locations
- DIN-rail or panel mount
- Overcurrent protection UL61010, Semi F47



#### **PS3V Metal**

- · Compact and cost-effective
- 5V, 12V and 24V outputs
- Direct Mounting or Din Rail mount Bracket
- · Finger-safe screw terminals
- UL/c-UL recognized and CE marked

### **Choose Your Power**

#### Three models to choose from

Your power supply is a critical part of your system. So when it comes to choosing a power supply, it's important to find the right one. With three distinct series, IDEC has power supplies to fit a variety of applications. Whether you need a power supply that can grow with your application, fit in a tight space, provide a wide power range or meet a fixed budget, IDEC provides the best options to meet your specific power needs!

	PS6R	PS5R-V	PS3V
Universal input voltage allows use around the world	<b>V</b>	<b>✓</b>	<b>✓</b>
RoHS compliant	<b>V</b>	<b>✓</b>	<b>✓</b>
Finger-safe terminals for worker safety	<b>V</b>	<b>✓</b>	<b>✓</b>
Adjustable output voltage	<b>V</b>	<b>✓</b>	<b>✓</b>
Operation indicator LED	<b>✓</b>	<b>✓</b>	<b>✓</b>
Series wiring capable for extra output voltage	<b>V</b>	<b>✓</b>	<b>✓</b>
DIN Rail mount	<b>V</b>	<b>✓</b>	<b>✓</b>
Panel mount	<b>V</b>	<b>✓</b>	<b>✓</b>
UL61010	<b>V</b>	<b>✓</b>	<b>✓</b>
High stability with output hold time = 20ms	<b>V</b>	<b>✓</b>	
Power factor correction	<b>✓</b>	<b>✓</b>	
Spring-up screw terminals accept ring lugs, fork connectors, or stripped wire	<b>✓</b>	<b>✓</b>	
Push-in terminals			<b>✓</b>
Parallel capable for extra output current	<b>V</b>		
Output voltage low LED	<b>✓</b>	<b>✓</b>	
Class I, Division 2 for use in hazardous locations	<b>V</b>	<b>✓</b>	
SEMI F47 sag immunity	<b>✓</b>	<b>✓</b>	
Slim, space saving design	<b>V</b>	<b>✓</b>	
Voltage expansion modules	<b>✓</b>		
Additional wiring terminals	<b>V</b>		
Alarm output contact	<b>✓</b>		
High efficiency greater than 90%	<b>✓</b>		
High operating temperature of 70°C	<b>✓</b>	<b>✓</b>	

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### **PS6R Power Supplies**



#### **Expandable Series**

- Expansion modules for multiple voltages
- · Lightweight and compact in size
- Wide power range: 120W - 480W
- Universal input: 85-264V AC/110-350V DC
- Power Factor Correction
- Meets SEMI F47 Sag Immunity
- Approved for Class I Div. 2 Hazardous Locations
- Overcurrent protection, auto-reset
- · Overvoltage protection, shut down
- Spring-up Screw Terminal type, IP20 (finger-safe)
- DIN rail or panel surface mount
- Approvals:
  CE Marked
  TÜV
  c-UL, UL61010
  CSA C22.2 No. 107.1
  UL1604: Class I Div 2
  EN 50178
  LVD: EN662368

EMC: Directive EN61204-3 EMI: Class B, EMS: Industrial











#### **120-Watt Power Supply**

Part Number	Rated Voltage	Rated Current
PS6R-F24	24V DC	5A



#### 240-Watt Power Supply

Part Number	Rated Voltage	Rated Current
PS6R-G24	24V DC	10A



#### 480-Watt Power Supply

Part Number	Rated Voltage	Rated Current
PS6R-J24	24V DC	20A

### Expansion made easy



By attaching an expansion module, you can easily configure the PS6R to your custom requirements. DC-DC converters allow up to three separate voltages to be used simultaneously, while a branch terminal module provides additional wiring terminals. Plus the flexibility of PS6R means you can adapt the power supply to your changing requirements, without additional investment in engineering or wiring.

### **Expansion Modules**

#### **DC-DC Converter Module**



Part Number	Output
PS9Z-6RM1	+5V, 2A, 10W
PS9Z-6RM2	+12V, 1A, 12W
PS9Z-6RM3	+5V, 1A/-5V, 1A 10W
PS9Z-6RM4	+15V, 0.4A/-15V, 0.4A, 12W
PS9Z-6RM5	+5V, 1A/+12V, 0.5A, 11W
PS9Z-6RM6	+12V, 0.5A/-12V, 0.5A, 12W



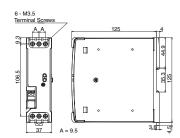
#### **Branch Terminal Module**

Part Number	Rated Voltage/Current
PS9Z-6RS1	+24V/10A Max

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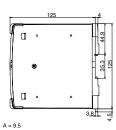
### **Expandable Power Supply Dimensions**



#### PS6R-F24 (120W)

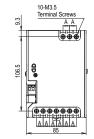
Height 125mm Width 37mm Depth 125mm

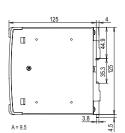




#### PS6R-G24 (240W)

Height 125mm Width 60mm Depth 125mm





#### PS6R-J24

Height 125mm Width 85mm Depth 125mm

### **PS5R-V Slim Line Power Supplies**



- · Compact in size
- Wide power range: 7.5W-240W
- Universal input: 85-264V AC/100-370V DC
- · Meets SEMI F47 Sag Immunity
- Approved for Class I Div. 2 Hazardous Locations
- Overcurrent protection, auto-reset
- · Overvoltage protection, shut down
- Spring-up Screw Terminal type, IP20 (finger-safe)
- DIN rail or panel surface mount
- Approvals:
   CE Marked
   TÜV
   c-UL, UL61010
   UL1604: Class I Div 2
   EN 50178
   LVD:EN662368
   EMC: Directive EN61204-3:2000
   EMI: Class B, EMS: Industrial











#### 7.5 Watt

Part Number	Rated Voltage	Rated Current
PS5R-VA05	5V DC	1.5A
PS5R-VA12	12V DC	0.6A
PS5R-VA24	24V DC	0.3A



#### 15 Watt / 30 Watt

15 Watt		
Part Number	Rated Voltage	Rated Current
PS5R-VB05*	5V DC	2.0A
PS5R-VB12	12V DC	1.3A
PS5R-VB24	24V DC	0.65A
30 Watt		
Part Number	Rated Voltage	Rated Current
PS5R-VC12	12V DC	2.5A
PS5R-VC24	24V DC	1.3A
* F\/DO M - 1-1 :- 10\M/		

<sup>\* 5</sup>VDC Model is 10W



#### 60 Watt / 90 Watt

60 Watt		
Part Number	Rated Voltage	Rated Current
PS5R-VD24	24V DC	2.5A
90 Watt		
PS5R-VE24	24V DC	3.75A



#### 120-Watt

Part Number	Rated Voltage	Rated Current
PS5R-VF24	24V DC	5A

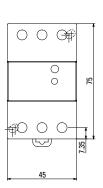


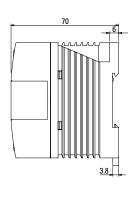
#### 240-Watt

Part Number	Rated Voltage	Rated Current
PS5R-VG24	24V DC	10A

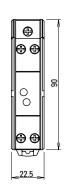
#### Dimensions (mm)

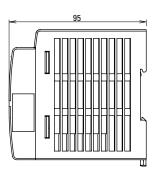
#### PS5R-VA



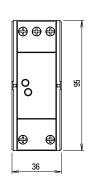


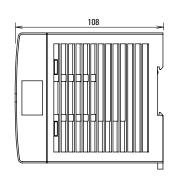
PS5R-VB/VC



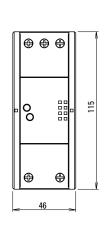


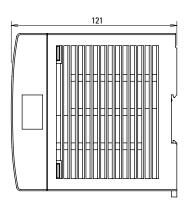
PS5R-VD/VE



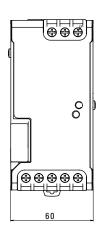


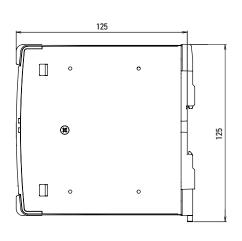
PS5R-VF





PS5R-VG





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## **PS3X Metal Power Supplies**



#### **Metal Series**

- · Slim and compact style
- Wide Power Range: 15W - 150W
- Universal input: 100 to 240V AC
- Overcurrent/Overvoltage protection
- Voltage ±10% adjustment
- Surface mounting or DIN-rail brackets available
- Approvals: CE marked cURus EN60950-1 compliant UL61010-1









#### 15-Watt Power Supply



Screw Terminals	Push-in Terminals	Output Voltage	Rated Current
PS3V-015AF05C	-	5VDC	3.0A
PS3V-015AF12C	-	12VDC	1.3A
PS3V-015AF24C	-	24VDC	0.63A

#### **30-Watt Power Supply**



Screw Terminals	Push-in Terminals	Output Voltage	Rated Current
PS3V-030AF05C	PS3V-030AF05P	5VDC	6.0A
PS3V-030AF12C	PS3V-030AF12P	12VDC	2.5A
PS3V-030AF24C	PS3V-030AF24P	24VDC	1.3A

#### **50-Watt Power Supply**



Screw Terminals	Push-in Terminals	Output Voltage	Rated Current
PS3V-050AF12C	PS3V-050AF12P	12VDC	4.5A
PS3V-050AF24C	PS3V-050AF24P	24VDC	2.3A

#### **100-Watt Power Supply**



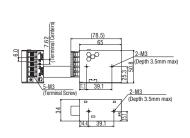
Screw Terminals	Push-in Terminals	Output Voltage	Rated Current
PS3V-100AF24C	PS3V-100AF24P	24V	4.5A

#### 150-Watt Power Supply

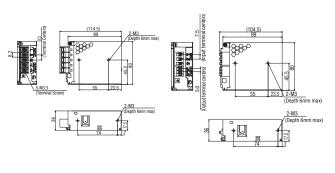


Screw Terminals	Push-in Terminals	Output Voltage	Rated Current
PS3V-150AF24C	PS3V-150AF24P	24V	6.5A

### **Metal Power Supply Dimensions**

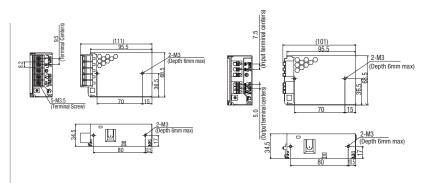


**PS3V (15W)**Height 50
Width 34 50.8mm 34mm Depth 78.5mm

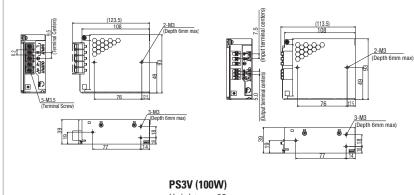


#### PS3V (50W)

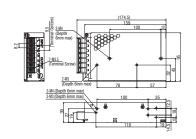
Height Width 80mm 36mm Depth 114.5mm

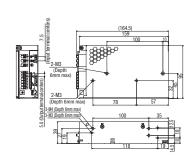


**PS3V (30W)**Height 68
Width 34 68.5mm 34.5mm 111mm Depth



Height Width 93mm 39mm Depth 123.5mm





#### **PS3V (150W)**

Height 95mm Width 39mm Depth 174.5mm

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### **Your Single Source Solution**

For more than 65 years, IDEC has focused on creating high-quality and reliable control automation products, while giving you personalized service and customized solutions to keep your applications up and running.









Relays



**HMIs** 



**PLCs** 

### **T**IDEC

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