

Din Rail Power Supply



POWERLD' s DIN Rail Power Supply adopts compact structure, and its unique innovative technology provides the highest guarantee for the reliability of the system.

1.Leadng High Power Density
30% smaller size than any other brand in the market

2.High Efficiency
94% efficiency,high conversion rate,
low power consumption

3.Powerful
The output power is increased to 110% when the output voltage of PSU is higher by 10% .
150% of the current can be withstood within 3 seconds.

***Over 27 years' experience,
dedicated in switching power supply***



FEATURES

Leading High Power Density

- 30% smaller size than any other brand in the market

High Efficiency

- 94.5% efficiency, high conversion rate, low power consumption.

Powerful

- The output power is increased to 110% when the output voltage of PSU is increased by 10%.
- 150% of the current can be withstood within 3 seconds.



DG-75 Series DG-120 Series DG-240 Series DG-360 Series DG-480 Series

DG-960 Series



PCL control



Power system



Track traffic

FEATURES

POWERLD DIN RAIL Power Supply adopts compact structure, and its unique innovative technology provides the highest guarantee for reliability of the system.

Convenient operation

Mounting rail TS-35/7.5 or TS-35/15.

Remote monitoring

Red / green light is for the site diagnosis for failures. Users can also remotely monitor the PSU through the dry contact of DC-OK.



Universal

Wide input voltage range.

High Reliability

MTBF > 300,000 hours (For details please refer the related models)

With perfect protections of output short circuit / over load / over voltage / over temperature.

Current sharing supports parallel applications.

Parallel Outputs Allowed

To increase the output power or redundancy electricity

Reliable Operations at harsh environment.

Wide operation temperature range.

Save space

Compact structure design.

75W Single Output



- Features:**
- Universal AC input range(85~264Vac)
 - Support 1+1 or N+1 redundant system
 - Built-in active PFC,PF>0.95
 - High efficiency up to 91%
 - Built-in current sharing function
 - Built-in current limiting circuit
 - Output protections: OVP/OLP/SCP/OTP
 - Wide operating ambient temp (-25℃~70℃)
 - 150% peak load capacity
 - Easy Fuse Tripping due to High Overload Current
 - Excellent Partial Load Efficiency
 - Built-in DC OK relay contact
 - Can be installed on TS-35/7.5 or TS-35/15
 - 100% full load burn-in test
 - Ultra-slim,32mm width

Input voltage	85Vac~264Vac, 127Vdc-360Vdc			
Frequency	47Hz~63Hz			
Operating amb. temp	-25℃~70℃(refer to derating curve)			
Over load protection	110%~150% of rated current			
Over voltage protection	120%~150% of rated output voltage			
Start up/Hold up time	Ton<250mS Td≥20mS @ 230Vac			
Withstand Voltage	IP-OP 3KVdc, IP-FG 1.5KVdc, OP-FG 0.5KVdc, 1min			
Safety standards	UL508, UL60950, EN60950			
EMC	EN61000-4-2,3,4,5,6,8,11; EN55022, EN55024, FCC PART 15 Class B			
Dimension (L*W*H)	124*119*32mm			

Model No.	Output Voltage/Current	Accuracy	Ripple and Noise	Efficiency
DG-75-12	12V 6.3A	± 1.0%	≤100mV	88%
DG-75-24	24V 3.2A	± 1.0%	≤120mV	91%
DG-75-48	48V 1.6A	± 1.0%	≤120mV	91%

120W Single Output



- Features:**
- Universal AC input range(85~264Vac)
 - Support 1+1 or N+1 redundant system
 - Built-in active PFC,PF>0.95
 - High efficiency up to 92%
 - Built-in current sharing function
 - Built-in current limiting circuit
 - Output protections: OVP/OLP/SCP/OTP
 - Wide operating ambient temp (-25℃~70℃)
 - 150% peak load capacity
 - Easy Fuse Tripping due to High Overload Current
 - Excellent Partial Load Efficiency
 - Built-in DC OK relay contact
 - Can be installed on TS-35/7.5 or TS-35/15
 - 100% full load burn-in test
 - Ultra-slim,32mm width

Input voltage	85Vac~264Vac, 127Vdc-360Vdc			
Frequency	47Hz~63Hz			
Operating amb. temp	-25℃~70℃(refer to derating curve)			
Over load protection	110%~150% of rated current			
Over voltage protection	120%~150% of rated output voltage			
Start up/Hold up time	Ton<250mS Td≥20mS @ 230Vac			
Withstand Voltage	IP-OP 3KVdc, IP-FG 1.5KVdc, OP-FG 0.5KVdc, 1min			
Safety standards	UL508, UL60950, EN60950			
EMC	EN61000-4-2,3,4,5,6,8,11; EN55022, EN55024, FCC PART 15 Class B			
Dimension (L*W*H)	124*119*32mm			

Model No.	Output Voltage/Current	Accuracy	Ripple and Noise	Efficiency
DG-120-12	12V 10.0A	± 1.0%	≤100mV	89.5%
DG-120-24	24V 5.0A	± 1.0%	≤120mV	91%
DG-120-48	48V 2.5A	± 1.0%	≤240mV	92%

480W Single Output



- Features:**
- Universal AC input range(85~264Vac)
 - Support 1+1 or N+1 redundant system
 - Built-in active PFC,PF>0.95
 - High efficiency up to 94%
 - Built-in current sharing function
 - Built-in current limiting circuit
 - Output protections: OVP/OLP/SCP/OTP
 - Wide operating ambient temp (-25℃~70℃)
 - 150% peak load capacity
 - Easy Fuse Tripping due to High Overload Current
 - Excellent Partial Load Efficiency
 - Built-in DC OK relay contact
 - Can be installed on TS-35/7.5 or TS-35/15
 - 100% full load burn-in test
 - Ultra-slim,70mm width

Input voltage	85Vac~264Vac, 127Vdc-360Vdc			
Frequency	47Hz~63Hz			
Operating amb. temp	-25℃~70℃(refer to derating curve)			
Over load protection	110%~150% of rated current			
Over voltage protection	120%~150% of rated output voltage			
Start up/Hold up time	Ton<3S Td≥20mS @ 230Vac			
Withstand Voltage	IP-OP 3KVdc, IP-FG 1.5KVdc, OP-FG 0.5KVdc, 1min			
Safety standards	UL508, UL60950, EN60950			
EMC	EN61000-4-2,3,4,5,6,8,11; EN55022, EN55024, FCC PART 15 Class B			
Dimension (L*W*H)	124*127*70mm			

Model No.	Output Voltage/Current	Accuracy	Ripple and Noise	Efficiency
DG-480-24	24V 20.0A	± 3.0%	≤240mV	93.8%
DG-480-48	48V 10.0A	± 3.0%	≤480mV	93.8%

960W Single Output



- Features:**
- Universal AC input range(85~264Vac)
 - Support 1+1 or N+1 redundant system
 - Built-in active PFC,PF>0.98
 - High efficiency up to 94.4%
 - Built-in current sharing function
 - Built-in current limiting circuit
 - Output protections: OVP/OLP/SCP/OTP
 - Wide operating ambient temp (-25℃~70℃)
 - 150% peak load capacity
 - Easy Fuse Tripping due to High Overload Current
 - Excellent Partial Load Efficiency
 - Built-in DC OK relay contact
 - Can be installed on TS-35/7.5 or TS-35/15
 - 100% full load burn-in test
 - Ultra-slim,140mm width

Input voltage	85Vac~264Vac, 127Vdc-360Vdc			
Frequency	47Hz~63Hz			
Operating amb. temp	-25℃~70℃(refer to derating curve)			
Over load protection	110%~150% of rated current			
Over voltage protection	120%~150% of rated output voltage			
Start up/Hold up time	Ton<1S Td≥20mS @ 230Vac			
Withstand Voltage	IP-OP 3KVdc, IP-FG 1.5KVdc, OP-FG 0.5KVdc, 1min			
Safety standards	UL508, UL60950, EN60950			
EMC	EN61000-4-2,3,4,5,6,8,11; EN55022, EN55024, FCC PART 15 Class B			
Dimension (L*W*H)	124.6*138.2*140mm			

Model No.	Output Voltage/Current	Accuracy	Ripple and Noise	Efficiency
DG-960-24	24V 40.0A	± 3.0%	≤240mV	94.4%
DG-960-48	48V 20.0A	± 3.0%	≤480mV	94.0%

240W Single Output



- Features:**
- Universal AC input range(85~264Vac)
 - Support 1+1 or N+1 redundant system
 - Built-in active PFC,PF>0.95
 - High efficiency up to 94%
 - Built-in current sharing function
 - Built-in current limiting circuit
 - Output protections: OVP/OLP/SCP/OTP
 - Wide operating ambient temp (-25℃~70℃)
 - 150% peak load capacity
 - Easy Fuse Tripping due to High Overload Current
 - Excellent Partial Load Efficiency
 - Built-in DC OK relay contact
 - Can be installed on TS-35/7.5 or TS-35/15
 - 100% full load burn-in test
 - Ultra-slim,45mm width

Input voltage	85Vac~264Vac, 127Vdc-360Vdc			
Frequency	47Hz~63Hz			
Operating amb. temp	-25℃~70℃(refer to derating curve)			
Over load protection	110%~150% of rated current			
Over voltage protection	120%~150% of rated output voltage			
Start up/Hold up time	Ton<3S Td≥20mS @ 230Vac			
Withstand Voltage	IP-OP 3KVdc, IP-FG 1.5KVdc, OP-FG 0.5KVdc, 1min			
Safety standards	UL508, UL60950, EN60950			
EMC	EN61000-4-2,3,4,5,6,8,11; EN55022, EN55024, FCC PART 15 Class B			
Dimension (L*W*H)	124*119*45mm			

Model No.	Output Voltage/Current	Accuracy	Ripple and Noise	Efficiency
DG-240-24	24V 10.0A	± 3.0%	≤240mV	94%
DG-240-48	48V 5.0A	± 3.0%	≤480mV	93%

360W Single Output



- Features:**
- Universal AC input range(85~264Vac)
 - Support 1+1 or N+1 redundant system
 - Built-in active PFC,PF>0.95
 - High efficiency up to 93%
 - Built-in current sharing function
 - Built-in current limiting circuit
 - Output protections: OVP/OLP/SCP/OTP
 - Wide operating ambient temp (-25℃~70℃)
 - 150% peak load capacity
 - Easy Fuse Tripping due to High Overload Current
 - Excellent Partial Load Efficiency
 - Built-in DC OK relay contact
 - Can be installed on TS-35/7.5 or TS-35/15
 - 100% full load burn-in test
 - Ultra-slim,50mm width

Input voltage	85Vac~264Vac, 127Vdc-360Vdc			
Frequency	47Hz~63Hz			
Operating amb. temp	-25℃~70℃(refer to derating curve)			
Over load protection	110%~150% of rated current			
Over voltage protection	120%~150% of rated output voltage			
Start up/Hold up time	Ton<3S Td≥20mS @ 230Vac			
Withstand Voltage	IP-OP 3KVdc, IP-FG 1.5KVdc, OP-FG 0.5KVdc, 1min			
Safety standards	UL508, UL60950, EN60950			
EMC	EN61000-4-2,3,4,5,6,8,11; EN55022, EN55024, FCC PART 15 Class B			
Dimension (L*W*H)	124*127*50mm			

Model No.	Output Voltage/Current	Accuracy	Ripple and Noise	Efficiency
DG-360-24	24V 15.0A	± 3.0%	≤240mV	93%
DG-360-36	36V 10.0A	± 3.0%	≤240mV	92.5%
DG-360-48	48V 7.5A	± 3.0%	≤480mV	92.5%

15W Single Output



Features:

- Universal AC input range(90~264Vac)
- High efficiency, long life and high reliability
- Output protections: OVP/OLP/SCP
- Wide operating ambient temp (-25°C~70°C)
- Can be installed on TS-35/7.5 or 35/15
- 100% full load burn-in test
- PCB with conformal coating
- Suitable for critical applications
- Cooling by free air convection

Input voltage	90Vac~264Vac, 127VDC-370VDC			
Frequency	47Hz~63Hz			
Operating amb. temp	-25°C~70°C(refer to derating curve)			
Over load protection	120%~160% of rated current			
Over voltage protection	120%~140% of rated output voltage			
Start up/Hold up time	Ton<1.5S Td≥20mS @ 230Vac			
Withstand Voltage	IP-OP 3KVac, IP-FG 1.5KVac, OP-FG 0.5KVdc, 1min			
Safety standards	UL508, UL60950, EN60950			
EMC	EN61000-4-2,3,4,5,6,8,11; EN55022, EN55024, FCC PART 15 Class B			
Dimension (L*W*H)	103.7*97.5*32mm			

Model No.	Output Voltage/Current	Accuracy	Ripple and Noise	Efficiency
DG-15-S12	12V 1.25A	±1.0%	≤120mV	83.0%
DG-15-S24	24V 0.65A	±1.0%	≤120mV	84.5%

30W Single Output



Features:

- Universal AC input range(90~264Vac)
- High efficiency, long life and high reliability
- Output protections: OVP/OLP/SCP
- Wide operating ambient temp (-25°C~70°C)
- Can be installed on TS-35/7.5 or 35/15
- 100% full load burn-in test
- PCB with conformal coating
- Suitable for critical applications
- Cooling by free air convection

Input voltage	90Vac~264Vac, 127VDC-370VDC			
Frequency	47Hz~63Hz			
Operating amb. temp	-25°C~70°C(refer to derating curve)			
Over load protection	120%~160% of rated current			
Over voltage protection	120%~140% of rated output voltage			
Start up/Hold up time	Ton<1.5S Td≥20mS @ 230Vac			
Withstand Voltage	IP-OP 3KVac, IP-FG 1.5KVac, OP-FG 0.5KVdc, 1min			
Safety standards	UL508, UL60950, EN60950			
EMC	EN61000-4-2,3,4,5,6,8,11; EN55022, EN55024, FCC PART 15 Class B			
Dimension (L*W*H)	103.7*97.5*32mm			

Model No.	Output Voltage/Current	Accuracy	Ripple and Noise	Efficiency
DG-30-S12	12V 2.5A	±1.0%	≤50mV	82.0%
DG-30-S24	24V 1.25A	±1.0%	≤70mV	85.0%

60W Single Output



Features:

- Universal AC input range(90~264Vac)
- 300Vac surge for 3 seconds
- High efficiency, long life and high reliability
- Output protections: OVP/OLP/SCP
- Wide operating ambient temp (-25°C~50°C)
- Can be installed on TS-35/7.5 or 35/15
- 100% full load burn-in test
- PCB with conformal coating
- Suitable for critical applications
- Cooling by free air convection

Input voltage	90Vac~264Vac, 127VDC-370VDC			
Frequency	47Hz~63Hz			
Operating amb. temp	-25°C~50°C(refer to derating curve)			
Over load protection	120%~160% of rated current			
Over voltage protection	120%~140% of rated output voltage			
Start up/Hold up time	Ton<1.5S Td≥20mS @ 230Vac			
Withstand Voltage	IP-OP 3KVac, IP-FG 1.5KVac, OP-FG 0.5KVdc, 1min			
Safety standards	UL508, UL60950, EN60950			
EMC	EN61000-4-2,3,4,5,6,8,11; EN55022, EN55024, FCC PART 15 Class B			
Dimension (L*W*H)	103.7*97.5*32mm			

Model No.	Output Voltage/Current	Accuracy	Ripple and Noise	Efficiency
DG-60-S12	12V 5.0A	±1.0%	≤60mV	86.0%
DG-60-S24	24V 2.5A	±1.0%	≤50mV	88.0%
DG-60-S48	48V 1.25A	±1.0%	≤120mV	89.0%

75W Single Output



Features:

- Universal AC input range(90~264Vac)
- Long life, high reliability and high efficiency
- Built-in current limiting circuit
- Output protections: OVP/OLP/SCP/OTP
- Wide operating ambient temp (-20°C~70°C)
- Can be installed on TS-35/7.5 or TS-35/15
- 100% full load burn-in test
- Suitable for critical applications
- Ultra-slim, 45mm width

Input voltage	90Vac~264Vac, 127VDC-370VDC			
Frequency	47Hz~63Hz			
Operating amb. temp	-20°C~70°C(refer to derating curve)			
Over load protection	110%~150% of rated current			
Over voltage protection	110%~150% of rated output voltage			
Start up/Hold up time	Ton<1.5S Td≥20mS @ 230Vac			
Withstand Voltage	IP-OP 3KVac, IP-FG 1.5KVac, OP-FG 0.5KVdc, 1min			
Safety standards	UL508, UL60950, EN60950			
EMC	EN61000-4-2,3,4,5,6,8,11; EN55022, EN55024, FCC PART 15 Class B			
Dimension (L*W*H)	124*119*45mm			

Model No.	Output Voltage/Current	Accuracy	Ripple and Noise	Efficiency
DG-U75S12	12V 6.25A	±1.0%	≤120mV	82.0%
DG-U75S24	24V 3.2A	±1.0%	≤120mV	87.0%

120W Single Output



Features:

- Universal AC input range(90~264Vac)
- High efficiency up to 89%
- Built-in current limiting circuit
- Output protections: OVP/OLP/SCP/OTP
- Wide operating ambient temp (-20°C~70°C)
- Built-in DC OK function
- Can be installed on TS-35/7.5 or TS-35/15
- 100% full load burn-in test
- Suitable for critical applications
- Ultra-slim, 45mm width

Input voltage	90Vac~264Vac, 127VDC-370VDC			
Frequency	47Hz~63Hz			
Operating amb. temp	-25°C~70°C(refer to derating curve)			
Over load protection	110%~150% of rated current			
Over voltage protection	110%~150% of rated output voltage			
Start up/Hold up time	Ton<1.5S Td≥20mS @ 230Vac			
Withstand Voltage	IP-OP 3KVac, IP-FG 1.5KVac, OP-FG 0.5KVdc, 1min			
Safety standards	UL508, UL60950, EN60950			
EMC	EN61000-4-2,3,4,5,6,8,11; EN55022, EN55024, FCC PART 15 Class B			
Dimension (L*W*H)	103.7*97.5*32mm			

Model No.	Output Voltage/Current	Accuracy	Ripple and Noise	Efficiency
DG-U120S12	12V 10.0A	±1.0%	≤50mV	85.0%
DG-U120S24	24V 5.0A	±1.0%	≤70mV	88.0%
DG-U120S48	48V 2.5A	±1.0%	≤70mV	89.0%

240W Single Output With Active PFC



Features:

- Universal AC input range(90~264Vac)
- Built-in active PFC, PF>0.94
- High efficiency up to 87%
- Built-in current limiting circuit
- Output protections: OVP/OLP/SCP/OTP
- Wide operating ambient temp (-20°C~70°C)
- Can be installed on TS-35/7.5 or TS-35/15
- 100% full load burn-in test
- Suitable for critical applications
- Altitude up to 6000m
- Ultra-slim, 70mm width
- Cooling by free air convection

Input voltage	90Vac~264Vac, 127VDC-370VDC			
Frequency	47Hz~63Hz			
Operating amb. temp	-20°C~70°C(refer to derating curve)			
Over load protection	110%~150% of rated current			
Over voltage protection	110%~150% of rated output voltage			
Start up/Hold up time	Ton<1.5S Td≥20mS @ 230Vac			
Withstand Voltage	IP-OP 3KVac, IP-FG 1.5KVac, OP-FG 0.5KVdc, 1min			
Safety standards	UL508, UL60950, EN60950			
EMC	EN61000-4-2,3,4,5,6,8,11; EN55022, EN55024, FCC PART 15 Class B			
Dimension (L*W*H)	124*127*70mm			

Model No.	Output Voltage/Current	Accuracy	Ripple and Noise	Efficiency
DG-U240S24	24V 10.0A	±1.0%	≤120mV	87.0%