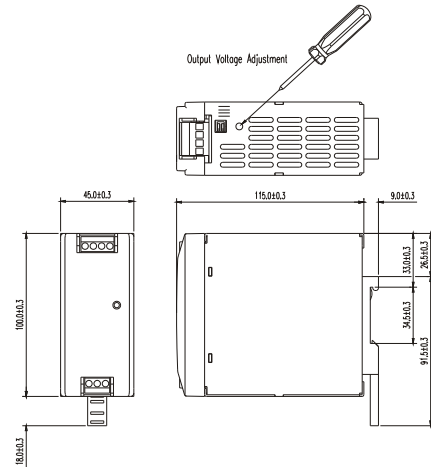


Description

This range of compact DIN mounted switching mode power supplies are designed for a wide range of control equipments which demands good quality regulated DC power source with excellent EMC immunity and electrical performance in an industrial environment. Up to 5 units can be connected in parallel.



Specifications

INPUT

Voltage Range (Auto Select) 90 - 130Vac ; 180 - 260Vac
Frequency Range 47 - 63Hz~
Full Load AC Current 1A@100Vac ;
0.5A@230Vac

No Load AC Current 15mA@100Vac ;
30mA@230Vac

Inrush Current , cold start @25°C * 15A@100Vac ; 30A@230Vac
Leakage Current 2mA

Power Factor min. 60%

Efficiency 75%@100Vac ;
76%@230Vac

OUTPUT

Nominal DC Voltage 5V

Voltage Adjust Range 4.2 - 6V

Rated Current 10A

Rated Power 60W

Ripple & Noise (peak to peak)** ≤50mV

Line Regulation ≤20mV

Load Regulation (10% - 100%) ≤50mV

Hold-up Time (Full Load) >20mSec@100Vac ; >30mSec@230Vac

Parallel Operation 5 units max. user selectable

PROTECTION

Over Load / Over Current 10 - 13A,
C.C., Auto-restart

Over Output Voltage 9 - 11Vdc

SAFETY & EMC

Safety Standards EN60950

Withstand Voltage I/P - O/P 3KVac ; I/P - F/G 1.5KVac ; O/P - F/G 0.5KVac

Insulation Resistance I/P - O/P, I/P - F/G, O/P - F/G 100Mohm and 500Vdc

EMI Radiation & Conduction EN55022 Class B

Harmonics Current EN61000-3-2, 3

EMC Immunity EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024

ENVIRONMENT

Working Temperature EN60950 : -10°C to +60°C (UL508 : 0 to 40°C)

Derating above 50°C See Derating Curve

Working Humidity 20 - 90 RH non-condensing

Storage Temperature Humidity -10°C to +80°C , 20 - 90 RH non-condensing

GENERAL

Switching Frequency @ Full Load 65 - 85KHz

Case Material Electro-Galvanized steel & Aluminum Enclosure and Poly-carbonate Front Panel

Safety Class Degree of Protection 1 (IEC 5360)

Case Protection IP 20 (IEC 529)

Mounting Snap on type with self locking can be installed on 35 mm Din-Rails / 7.5 or 15

Connection Screw terminals with double terminals for output

REMARK

DRS-6000-05

90 - 130Vac ; 180 - 260Vac

47 - 63Hz~

1A@100Vac ;

0.5A@230Vac

15mA@100Vac ;

30mA@230Vac

15A@100Vac ; 30A@230Vac

2mA

min. 60%

75%@100Vac ;

76%@230Vac

5V

4.2 - 6V

10A

60W

≤50mV

≤20mV

≤50mV

>20mSec@100Vac ; >30mSec@230Vac

5 units max. user selectable

10 - 13A,

C.C., Auto-restart

9 - 11Vdc

EN60950

I/P - O/P 3KVac ; I/P - F/G 1.5KVac ; O/P - F/G 0.5KVac

I/P - O/P, I/P - F/G, O/P - F/G 100Mohm and 500Vdc

EN55022 Class B

EN61000-3-2, 3

EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024

EN60950 : -10°C to +60°C (UL508 : 0 to 40°C)

See Derating Curve

20 - 90 RH non-condensing

-10°C to +80°C , 20 - 90 RH non-condensing

65 - 85KHz

Electro-Galvanized steel & Aluminum Enclosure and Poly-carbonate Front Panel

Degree of Protection 1 (IEC 5360)

IP 20 (IEC 529)

Snap on type with self locking can be installed on 35 mm Din-Rails / 7.5 or 15

Screw terminals with double terminals for output

*Ta=25°C Cold start

DRS-6000-12

1.1A@100Vac ;

0.55A@230Vac

25mA@100Vac ;

30mA@230Vac

82%@100Vac ;

83%@230Vac

12V

10.5 - 14V

5A

6 - 7A,

C.C., Auto-restart

18 - 20Vdc

EN60950

I/P - O/P 3KVac ; I/P - F/G 1.5KVac ; O/P - F/G 0.5KVac

I/P - O/P, I/P - F/G, O/P - F/G 100Mohm and 500Vdc

EN55022 Class B

EN61000-3-2, 3

EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024

EN60950 : -10°C to +60°C (UL508 : 0 to 40°C)

See Derating Curve

20 - 90 RH non-condensing

-10°C to +80°C , 20 - 90 RH non-condensing

65 - 85KHz

Electro-Galvanized steel & Aluminum Enclosure and Poly-carbonate Front Panel

Degree of Protection 1 (IEC 5360)

IP 20 (IEC 529)

Snap on type with self locking can be installed on 35 mm Din-Rails / 7.5 or 15

Screw terminals with double terminals for output

**100MHz Band width scope

DRS-6000-24

1.1A@100Vac ;

0.55A@230Vac

25mA@100Vac ;

30mA@230Vac

85%@100Vac ;

86%@230Vac

24V

21.5 - 28V

2.5A

2.7 - 3.5A,

C.C., Auto-restart

30 - 35Vdc

EN60950

I/P - O/P 3KVac ; I/P - F/G 1.5KVac ; O/P - F/G 0.5KVac

I/P - O/P, I/P - F/G, O/P - F/G 100Mohm and 500Vdc

EN55022 Class B

EN61000-3-2, 3

EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024

EN60950 : -10°C to +60°C (UL508 : 0 to 40°C)

See Derating Curve

20 - 90 RH non-condensing

-10°C to +80°C , 20 - 90 RH non-condensing

65 - 85KHz

Electro-Galvanized steel & Aluminum Enclosure and Poly-carbonate Front Panel

Degree of Protection 1 (IEC 5360)

IP 20 (IEC 529)

Snap on type with self locking can be installed on 35 mm Din-Rails / 7.5 or 15

Screw terminals with double terminals for output

**100MHz Band width scope

DRS-6000-48

1.1A@100Vac ;

0.55A@230Vac

25mA@100Vac ;

30mA@230Vac

85%@100Vac ;

86%@230Vac

48V

44.5 - 52V

1.25A

1.5 - 2A,

C.C., Auto-restart

60 - 65Vdc

EN60950

I/P - O/P 3KVac ; I/P - F/G 1.5KVac ; O/P - F/G 0.5KVac

I/P - O/P, I/P - F/G, O/P - F/G 100Mohm and 500Vdc

EN55022 Class B

EN61000-3-2, 3

EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024

EN60950 : -10°C to +60°C (UL508 : 0 to 40°C)

See Derating Curve

20 - 90 RH non-condensing

-10°C to +80°C , 20 - 90 RH non-condensing

65 - 85KHz

Electro-Galvanized steel & Aluminum Enclosure and Poly-carbonate Front Panel

Degree of Protection 1 (IEC 5360)

IP 20 (IEC 529)

Snap on type with self locking can be installed on 35 mm Din-Rails / 7.5 or 15

Screw terminals with double terminals for output

**100MHz Band width scope