

## Switch Power Supply

### Features

- ◇ Input voltage range: S-120/S-250:88-132VDC/170-264VAC, S-201/S-350:90-132VAC/180-264VAC, SP-500:88-264VAC, Other models:85-132VAC/170-264VAC Selected by Switch Power Supply 47-63Hz 240-370VDC;
- ◇ Input current: S-15 /25: 0.7A/115V 0.3A/230V, S-35:0.8A/115V 0.45A/230V,S-50:1.3A/115V 0.65A/230V,S-60:2A/115V 1A/230V S-70:2.2A/115V 1.1A/230V,S-100:2.4A/115V 1.2A/230V ,S-120:2.6A/115V 1.3A/230V,S-145:3.2A/115V 1.6A/230V, S-150:3.2A/115V 1.6A/230V,S-201:4.5A/115V 2.5A/230V,S-250:5A/115V 2.5A/230V,S-350: 6.5A/115V 4A/230V,SP-500:7A/115V 36A/230V;
- ◇ Inrush current: S-15/25: Cold start 15A/115V 30A/230V current, S-35/50/SP-500: Cold start 18A/115V 36A/230V current, S-60/70/100/120/250: Cold start 30A/115V 60A/230V current, S-145/150: Cold start 35A/115V 60A/230V current, S-201/250: Cold start 25A/115V 50A/230V current;
- ◇ Leakage current: S-15/25<0.75mA/240VAC, S-35<0.5mA/240VAC, S-50/60/70/100/120/145<1mA/240VAC, S-150/201/250/350/SP-500<3.5mA/240VAC;
- ◇ Start, rise, hold time: S-15/25/60/70: 800ms, 50ms, 10ms, /115VAC, 300ms, 50ms, 80ms, /230VAC; S-35: 200ms, 100ms, 30ms, S-50/100/120/201/350: 200ms, 100ms, 20ms; S-145/150: 100ms, 50ms, 20ms; S-250: 200ms, 80ms, 16ms; SP-500: 1.5ms, 50ms, 20ms
- ◇ 105-150% overload protection type: current limiting, reset, automatic recovery;
- ◇ Temperature coefficient:  $\pm 0.03\%/^{\circ}\text{C}$  (0-50 $^{\circ}\text{C}$ );
- ◇ Earthquake resistance: 10-500Hz, 2G 10min, /1 cycle, a total of 60 minutes, each axis;
- ◇ Pressure resistance: between input and output: 15KVAC, input and shell: 1.5KVAC, output and shell: 0.5KVAC;
- ◇ Isolation resistance: input and output, the input and Waikou, output and shell: 500VDC/100M $\Omega$ ;
- ◇ Temperature, humidity: -10 $^{\circ}\text{C}$  +60 $^{\circ}\text{C}$ , 20%-90% RH;
- ◇ Storage temperature and humidity: -20 $^{\circ}\text{C}$  +85 $^{\circ}\text{C}$ , 10%-95% RH.



S-15 99 × 97 × 35mm

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
S-15-5V	5V, 0-3A	$\pm 2\%$	50mvp-p	65%
S-15-12V	12V, 0-1.3A	$\pm 1\%$	50mvp-p	68%
S-15-24V	24V, 0-0.7A	$\pm 1\%$	100mvp-p	72%



S-25 99 × 97 × 35mm

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
S-25-5V	5V, 0-5A	$\pm 2\%$	50mvp-p	72%
S-25-12V	12V, 0-2.1A	$\pm 1\%$	100mvp-p	76%
S-25-15V	15V, 0-1.7A	$\pm 1\%$	100mvp-p	77%
S-25-24V	24V, 0-1.1A	$\pm 1\%$	100mvp-p	80%



S-35 129 × 93 × 38mm

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
S-35-5V	5V, 0-7A	$\pm 2\%$	75mvp-p	70%
S-35-12V	12V, 0-3A	$\pm 1\%$	100mvp-p	76%
S-35-15V	15V, 0-2.4A	$\pm 1\%$	100mvp-p	78%
S-35-24V	24V, 0-1.5A	$\pm 1\%$	100mvp-p	78%



S-50 159 × 97 × 38mm

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
S-50-5V	5V, 0-10A	$\pm 2\%$	75mvp-p	71%
S-50-12V	12V, 0-4.2A	$\pm 1\%$	100mvp-p	78%
S-50-15V	15V, 0-3.4A	$\pm 1\%$	100mvp-p	78%
S-50-24V	24V, 0-2.1A	$\pm 1\%$	100mvp-p	82%

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S-60 159 × 97 × 38mm

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
S-60-5V	5V,0-12A	± 2%	100mvp-p	73%
S-60-12V	12V,0-5A	± 1%	120mvp-p	76%
S-60-15V	15V,0-4A	± 1%	120mvp-p	77%
S-60-24V	24V,0-2.5A	± 1%	120mvp-p	79%



S-70 159 × 97 × 38mm

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
S-70-12V	12V,0-5.8A	± 1%	120mvp-p	75%
S-70-15V	15V,0-4.7A	± 1%	150mvp-p	75%
S-70-18V	18V,0-3.9A	± 1%	150mvp-p	77%
S-70-24V	24V,0-2.9A	± 1%	150mvp-p	79%



S-100 199 × 97 × 38mm

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
S-100-3V	3V,0-20A	± 2%	100mvp-p	70%
S-100-5V	5V,0-20A	± 2%	100mvp-p	78%
S-100-7.5V	7.5V,0-13.6A	± 1%	100mvp-p	80%
S-100-12V	12V,0-8.5A	± 1%	100mvp-p	81%
S-100-15V	15V,0-6.7A	± 1%	100mvp-p	81%
S-100-24V	24V,0-4.5A	± 1%	100mvp-p	84%
S-100-27V	27V,0-3.7A	± 1%	100mvp-p	84%
S-100-48V	48V,0-2A	± 1%	100mvp-p	84%



S-120 199 × 98 × 38mm

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
S-120-12V	12V,0-10A	± 1%	120mvp-p	80%
S-120-15V	15V,0-8A	± 1%	125mvp-p	81%
S-120-24V	24V,0-5A	± 1%	150mvp-p	83%
S-120-48V	48V,0-2.5A	± 1%	150mvp-p	84%



S-145 199 × 98 × 38mm

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
S-145-5V	5V,0-25A	± 2%	100mvp-p	78%
S-145-7.5V	7.5V,0-18A	± 1%	100mvp-p	80.5%
S-145-12V	12V,0-12A	± 1%	100mvp-p	80.5%
S-145-24V	24V,0-6A	± 1%	100mvp-p	83.5%



S-150 199 × 110 × 50mm

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
S-150-5V	5V,0-30A	± 2%	150mvp-p	78%
S-150-7.5V	7.5V,0-20A	± 1%	150mvp-p	80%
S-150-9V	9V,0-16.7A	± 1%	180mvp-p	80%
S-150-12V	12V,0-12.5A	± 1%	180mvp-p	82%
S-150-13.5V	13.5V,0-11.2A	± 1%	180mvp-p	83%
S-150-15V	15V,0-10A	± 1%	180mvp-p	84%
S-150-24V	24V,0-6.5A	± 1%	240mvp-p	85%
S-150-27V	27V,0-5.6A	± 1%	240mvp-p	86%
S-150-48V	48V,0-3.2A	± 1%	240mvp-p	87%

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S-201 199 × 110 × 50mm

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
S-201-5V	5V,0-40A	± 2%	150mvp-p	74%
S-201-7.5V	7.5V,0-26.5A	± 2%	150mvp-p	79%
S-201-12V	12V,0-16.5A	± 1%	150mvp-p	80%
S-201-13.5V	13.5V,0-14.7A	± 1%	150mvp-p	80%
S-201-15V	15V,0-13A	± 1%	150mvp-p	81%
S-201-24V	24V,0-8.3A	± 1%	150mvp-p	83%
S-201-27V	27V,0-7.4A	± 1%	200mvp-p	83%
S-201-48V	48V,0-4.2A	± 1%	240mvp-p	84%



S-250 199 × 110 × 50mm

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
S-250-5V	5V,0-45A	± 2%	200mvp-p	75%
S-250-12V	12V,0-20A	± 2%	150mvp-p	79%
S-250-13.5V	13.5V,0-18.6A	± 1%	150mvp-p	79%
S-250-15V	15V,0-16.7A	± 1%	150mvp-p	80%
S-250-24V	24V,0-10A	± 1%	150mvp-p	81%
S-250-27V	27V,0-9A	± 1%	150mvp-p	82%
S-250-48V	48V,0-5A	± 1%	240mvp-p	84%



S-350 215 × 115 × 50mm

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
S-350-5V	5V,0-50A	± 2%	150mvp-p	73%
S-350-7.5V	7.5V,0-40A	± 2%	150mvp-p	76%
S-350-12V	12V,0-29A	± 1%	150mvp-p	74%
S-350-13.5V	13.5V,0-25.8A	± 1%	150mvp-p	79%
S-350-15V	15V,0-23.2A	± 1%	150mvp-p	78%
S-350-24V	24V,0-14.6A	± 1%	150mvp-p	81%
S-350-27V	27V,0-13A	± 1%	200mvp-p	82%
S-350-48V	48V,0-7.3A	± 1%	240mvp-p	83%



SP-500 185 × 120 × 93mm

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
SP-500-12V	12V,0-40A	± 1%	240mvp-p	84%
SP-500-13.5V	13.5V,0-36A	± 1%	240mvp-p	84%
SP-500-15V	15V,0-32A	± 1%	240mvp-p	83%
SP-500-24V	24V,0-20A	± 1%	240mvp-p	85.5%
SP-500-27V	27V,0-18A	± 1%	240mvp-p	86.5%
SP-500-48V	48V,0-10A	± 1%	300mvp-p	87%



## Switch Power Supply

### Features

- ◇ Input voltage range: D-30A(B):85-132VAC/170-264VAC; D-50A(B)/T-30A(B)/T-50A(B,C,D):85-132VAC/176-264VAC; D-120A(B):88-132VDC/176-264VAC, D-200A(B):180-264VAC; Selected by Switch Power Supply 47-63Hz 240-370VDC  
T-100C(D):85-132VAC/170-264VAC; T-60A(B,C)/Q-60:85-264VAC Selected by Switch Power Supply 47-63Hz 120-370VDC  
Q-100B(D) : 88-132VDC/176-264VAC Selected by Switch Power Supply 47-63Hz 120-370VDC  
Q-120B(C,D) :88-132VDC/176-264VAC Selected by Switch Power Supply 47-63Hz 248-370VDC;
- ◇ Input current: D-30A(B)/T-30A(B):0.8A/115V 0.45A/230V,D-50A(B):1.3A/115V 0.65A/230V,  
D-120A(B)/T-100C(D)/Q-120B(C,D):2.5A/115V 1.25A/230V, D-200A(B):Code start current 2.5A/230V  
T-50A:1.6A/115V 0.8A/230V ,T-60A(B,C):2A/115V 1A/230V ,Q-60: 1.3A/115V 0.8A/230V, Q-100B(D): 3A/115V 1.5A/230V
- ◇ Inrush current: D-30A(B)/T-60A(B,C)/T-100C(D)/Q-100B(D):30A/115V 60A/230V, D-50A(B)/T-30A(B)/Q-60: 18A/115V 36A/230V, D-120A(B): 35A/115V and 230V,T-50A(B,C,D): 20A/115V 40A/230V,Q-120B(C,D):Cold start Current is 35A
- ◇ Leakage current: D-30A(B)/D-50A(B)/T-30A(B)/T-50A(B,C,D)<0.5mA/240VAC,D-120A(B)/D-200A(B)/Q-120B(C,D)<3.5mA/240VAC,T-60A(B,C)/T-100C(D)/Q-60/Q-100B(D) <1mA/240VAC
- ◇ Start,rise,hold time: D-30A(B)/D-50A(B):200ms,50ms,30ms; D-120A(B)/D-200A(B)/Q-120B(C,D):200ms,50ms,20ms; T-30A(B) /:200ms,100ms,30ms; T-50A(B,C,D)/T-100C(D) :200ms,50ms,16ms T-60A(B,C)/Q-100B(D) :800ms,50ms,16ms/115VAC, 300ms,50ms,80ms/230VAC; Q-60: 1.6s,20ms,12ms/115VAC, 800ms,20ms,60ms/230VAC;
- ◇ 105-150% overload protection type:current limiting,reset,automatic recovery.
- ◇ Temperature coefficient: ± 0.03%/°C(0-50°C)
- ◇ Earthquake resistance:10-500Hz,2G 10min,/1 cycle,a total of 60 minutes,each axis
- ◇ Pressure resistance:between input and output:15KVAC, input and shell:1.5KVAC, output and shell:0.5KVAC
- ◇ Isolation resistance:input and output,the input and Waikou, output and shell:500VDC/100MΩ
- ◇ Temperature,humidity:-10°C+60°C ,20%-90% RH
- ◇ Storage temperature and humidity:-20°C+85°C ,10%-95% RH



D-30 129 × 98 × 38mm



D-50 159 × 97 × 38mm



D-120 199 × 110 × 50mm



D-200 199 × 110 × 50mm

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
D-30A	5V,0.5-4A	± 2%	50mvp-p	72%
	12V,0.1-1A	+3%,-7%	100mvp-p	72%
D-30B	5V,0.5-2A	± 2%	50mvp-p	74%
	24V,0.1-1A	+3%,-5%	100mvp-p	74%

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
D-50A	5V,1-6A	± 2%	50mvp-p	73%
	12V,0.3-2A	+5%,-8%	100mvp-p	73%
D-50B	5V,1-6A	± 2%	50mvp-p	73%
	24V,0.2-1A	+3%,-5%	100mvp-p	73%

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
D-120A	5V,2-12A	± 2%	60mvp-p	78%
	12V,0.5-5A	± 6%	120mvp-p	78%
D-120B	5V,2-6A	± 2%	60mvp-p	80%
	24V,0.4-4A	± 7%	150mvp-p	80%

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
D-200A	5V,2-10A	± 2%	80mvp-p	78%
	12V,0.5-12A	± 6%	150mvp-p	78%
D-200B	5V,2-10A	± 2%	80mvp-p	80%
	24V,0.5-6A	± 7%	150mvp-p	80%

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T-30 129 × 98 × 38mm

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
T-30A	5V,0.5-3A	± 2%	50mvp-p	70%
	12V,0.1-1A	+2%, -6%	100mvp-p	70%
	-5V,0.1-0.5A	+2%, -10%	50mvp-p	70%
T-30B	5V,0.5-3A	± 2%	50mvp-p	72%
	12V,0.1-1A	+2%, -6%	100mvp-p	72%
	-12V,0.1-0.5A	± 6%	100mvp-p	72%



T-50 159 × 97 × 38mm

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
T-50A	5V,0.6-7A	± 2%	100mvp-p	66%
	12V,0.2-1A	± 5%	100mvp-p	66%
	-5V,0.2-1A	± 5%	100mvp-p	66%
T-50B	5V,0.6-5A	± 2%	100mvp-p	69%
	12V,0.2-1A	± 5%	100mvp-p	69%
	-12V,0.2-1A	± 5%	100mvp-p	69%
T-50C	5V,0.6-4A	± 2%	100mvp-p	71%
	15V,0.2-1A	± 5%	100mvp-p	71%
	-15V,0.2-1A	± 5%	100mvp-p	71%
T-50D	5V,0.6-3A	± 2%	50mvp-p	72%
	12V,0.2-1A	± 6%	120mvp-p	72%
	24V,0.2-1A	± 6%	120mvp-p	72%



T-60 159 × 97 × 38mm

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
T-60A	5V,0.5-7A	± 2%	100mvp-p	72%
	12V,0.2-3.5A	± 5%	100mvp-p	72%
	-5V,0-1A	± 5%	100mvp-p	72%
T-60B	5V,0.5-7A	± 2%	100mvp-p	72%
	12V,0.2-3.5A	± 6%	100mvp-p	72%
	-12V,0-1A	± 6%	100mvp-p	72%
T-60C	5V,0.5-7A	± 2%	100mvp-p	72%
	15V,0.2-3A	± 6%	100mvp-p	72%
	-15V,0-1A	± 6%	100mvp-p	72%



T-100 199 × 110 × 50mm

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
T-100C	5V,2-10A	± 2%	80mvp-p	77%
	15V,0.2-2.5A	± 6%	150mvp-p	77%
	-15V,0-1A	± 6%	150mvp-p	77%
T-100D	5V,2-10A	± 2%	80mvp-p	79%
	12V,0.1-2A	± 6%	150mvp-p	79%
	24V,0.2-2A	± 6%	150mvp-p	79%



Q-60 129 × 97 × 38mm

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
Q-60	5V,0-5.5A	± 2%	100mvp-p	70%
	12V,0-2A	± 6%	120mvp-p	70%
	-5V,0-0.5A	± 5%	100mvp-p	70%
	-12V,0-0.5A	± 5%	120mvp-p	70%

**Switch Power Supply**



Q-100 199 × 110 × 50mm



Q-120 199 × 110 × 50mm

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
Q-100B	5V,3-13A	± 2%	80mvp-p	76%
	12V,0.2-2A	± 6%	120mvp-p	76%
	-15V,0.1-1A	± 6%	120mvp-p	76%
	-12V,0.1-1A	± 6%	120mvp-p	76%
Q-100D	5V,0.2-12A	± 2%	100mvp-p	76%
	12V,0.1-1A	± 8%	120mvp-p	76%
	-24V,0.2-2A	± 10%	150mvp-p	76%
	-12V,0.1-1A	± 10%	120mvp-p	76%

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
Q-120B	5V,2-11A	± 2%	80mvp-p	77%
	12V,0.5-4A	± 6%	120mvp-p	77%
	-15V,0.2-1A	± 6%	80mvp-p	77%
	-12V,0.2-1A	± 6%	120mvp-p	77%
Q-120C	5V,0.2-12A	± 2%	80mvp-p	76%
	15V,0.5-3.5A	+10%, -5%	150mvp-p	76%
	-5V,0.2-1A	± 6%	80mvp-p	76%
	-15V,0.5-3.5A	+10%, -5%	150mvp-p	76%
Q-120D	5V,2-12A	± 2%	80mvp-p	80%
	12V,0.2-4A	± 6%	120mvp-p	80%
	24V,0.2-2A	± 6%	180mvp-p	80%
	-12V,0.2-1A	± 6%	120mvp-p	80%



### Din-rail Switch Power Supply



DR-30 78 × 93 × 56mm



DR-45 93 × 78 × 67mm



DR-60 78 × 93 × 56mm



DR-75 55.5 × 125.2 × 100mm



DR-100 100 × 93 × 56mm



DR-120 65.5 × 125.2 × 100mm



DRP-240 125.5 × 125.2 × 100mm



DRP-480S 227 × 125.2 × 100mm

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
DR-30-5	5V,0-3A	± 2%	80mvp-p	74%
DR-30-12	12V,0-2A	± 1%	120mvp-p	81%
DR-30-15	15V,0-2A	± 1%	120mvp-p	82%
DR-30-24	24V,0-1.5A	± 1%	150mvp-p	83%

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
DR-45-5	5V,0-5A	± 2%	100mvp-p	72%
DR-45-12	12V,0-3.5A	± 1%	200mvp-p	77%
DR-45-15	15V,0-2.8A	± 1%	240mvp-p	77%
DR-45-24	24V,0-2A	± 1%	480mvp-p	80%

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
DR-60-5	5V,0-5A	± 2%	100mvp-p	72%
DR-60-12	12V,0-3.5A	± 1%	200mvp-p	77%
DR-60-15	15V,0-4.0A	± 1%	240mvp-p	77%
DR-60-24	24V,0-2A	± 1%	480mvp-p	80%

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
DR-75-12	12V, 0-6.3A	± 2%	100mvp-p	76%
DR-75-24	24V, 0-3.2A	± 1%	150mvp-p	80%
DR-75-48	48V, 0-1.6A	± 1%	240mvp-p	81%

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
DR-100-12	12V,0-7.5A	± 1%	120mvp-p	84%
DR-100-15	15V,0-6.5A	± 1%	120mvp-p	85%
DR-100-24	24V,0-4.2A	± 1%	150mvp-p	86%

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
DR-120-12	12V,0-5A	± 2%	80mvp-p	80%
DR-120-24	24V,0-3.5A	± 1%	80mvp-p	84%
DR-120-48	48V,0-2.5A	± 1%	100mvp-p	85%

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
DRP-240-24	24V,0-10A	± 1%	80mvp-p	84%
DRP-240-48	48V,0-5A	± 1%	150mvp-p	85%

Model	Output	Tolerance voltage	Ripple and noise	Efficiency
DRP-480S-24	24V,0-20A	± 1%	120mvp-p	89%
DRP-480S-48	48V,0-10A	± 1%	120mvp-p	89%