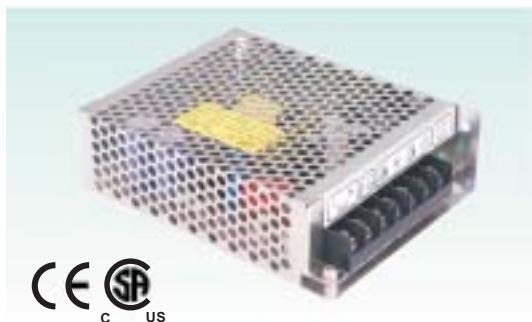


ENCLOSED SWITCHING POWER SUPPLY-DUAL OUTPUT

30W Dual Output Switching Power Supply

PICTURE Case:F 129x98x38mm



FEATURES

- Low Cost, high reliability
- High efficiency, low working temp.
- Built in EMI filter, low ripple noise
- Compact size , light weight
- 100% full load burn-in test
- Approvals:CE/ CSA:219967-1426940
- Short circuit/ over load protected
- International AC input selected
- 1 year warranty

TECHNICAL DATA

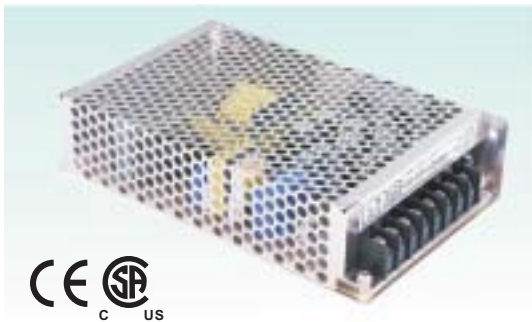
Input voltage 85 ~ 132VAC/170 ~ 264VAC selected by sw.
 Input frequency 47-63Hz
 Inrush current cold start. 15A/115V,30A/ 230V
 Output voltage refer to below table(Ch1: +10, -5% ADJ.)
 Ripple <2%(p-p)
 Overload protection 105% ~ 150% output foldback limiting
 Setup, rise, hold up time 200ms, 50ms,30ms
 Withstand voltage I/P-O/P:1.5KV, I/P-FG:1.5KV,1min
 Insulation resistance >100MΩ (output) and (input,FG)
 Working temperature 0-50°C@100%,-10°C@80%,60°C@60%
 Storage temperature -25~65°C
 Operation humidity 25~85%RH
 EMI Standards IEC-1000-3-2,3,FCC class B
 EMC Standards EN61000-4-2,3,4,5,
 Vibration 10~55HZ, 0.375mm amplitude at X,Y,Z axial for about 2H
 Shock 294m/s²{30G}at 6 surfaces for three times
 Desire life >8 years (load 50% at +40°C)
 Weight 0.4kgs

※ Type

Type No .	Output	Tol.	R & N	Effi.
SP-E030N012P-SA	5V : 0.5-4A	±2%	50mV	72%
	12V : 0.1-1A	+3,-7%	100mV	
SP-E030N024P-SA	5V : 0.5-2.2A	±2%	50mV	74%
	24V : 0.1-1A	+3,-5%	100mV	

50W Dual Output Switching Power Supply

PICTURE Case:A 159x97x38mm



FEATURES

- Low Cost, high reliability
- High efficiency, low working temp.
- Built in EMI filter, low ripple noise
- Compact size, light weight
- 100% full load burn-in test
- Approvals:CE/ CSA:219967-1426940
- Short circuit/ over load protected
- International AC input selected
- 1 Year warranty

TECHNICAL DATA

Input voltage 85 ~ 132VAC/170 ~ 264VAC selected by sw.
 Input frequency 47-63Hz
 Inrush current cold start. 15A/115V,30A/ 230V
 Output voltage refer to below table(CH1: +10, -5%.ADJ)
 Ripple <2%(p-p)
 Overload protection 105% ~ 150% output foldback limiting
 Setup, rise, hold up time 200ms, 50ms,20ms
 Withstand voltage I/P-O/P:1.5KV, I/P-FG:1.5KV,1min
 Insulation resistance >100MΩ (output) an (input,FG)
 Working temperature 0-50°C@100%,-10°C@80%,60°C@60%
 Storage temperature -25~65°C
 Operation humidity 25~85%RH
 EMI Standards IEC-1000-3-2,3,FCC class B
 EMC Standards EN61000-4-2,3,4,5,
 Vibration 10~55HZ, 0.375mm amplitude at X,Y,Z axial for about 2H
 Shock 294m/s²{30G}at 6 surfaces for three times
 Desire life >8 years (load 50% at +40°C)
 Weight 0.52kgs

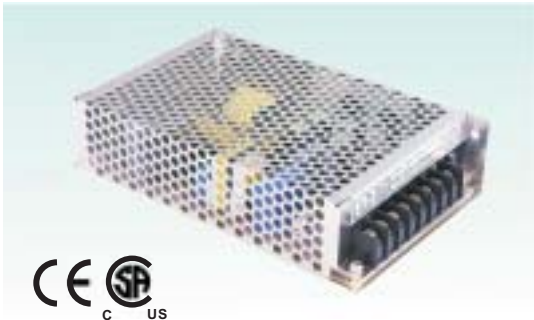
※ Type

Type No .	Output	Tol.	R & N	Effi.
SP-E050N012P-SA	5V : 1-6A	±2%	50mV	73%
	12V : 0.3-2A	+5,-8%	100mV	
SP-E050N024P-SA	5V : 1-6A	±2%	50mV	73%
	24V : 0.2-1A	±8%	100mV	

ENCLOSED SWITCHING POWER SUPPLY-DUAL OUTPUT

60W Dual Output Switching Power Supply

PICTURE Case:A 159x97x38mm



FEATURES

- Low cost, high reliability
- High efficiency, low working temp.
- Built in EMI filter, low ripple noise
- Compact size, light weight
- 100% full load burn-in test
- Short circuit/ over load/ over voltageprotected
- Universal AC input/full range
- Approvals:CE/ CSA:219967-1426940
- 2 yeays warranty

TECHNICAL DATA

Input voltage.....85~264VAC universal input
 Input frequency.....47~63 HZ
 Inrush current.....cold start,25A/115,50A/230V
 Output voltage.....refer to belowtable (CH1:+10,-5% ADJ.)
 Ripple<2%(p-p)
 Overload protection.....105%~150% output pulsing mode
 Over voltage protection....CH1:5.75~6.75V of output voltage
 Setup,rise,hold up time....800ms,50ms,10ms/115VAC
 300ms,50ms,80ms/230VAC
 Withstand voltage.....I/P-O/P:3KV, I/P-FG: 1.5KV, 1min
 Insulation resistance.....>100M Ω (output) and (input,FG)
 Working temperature.....0-45°C @ 100%,-10°C @ 80%, 60°C @ 60%
 Storage temperature.....-25~65°C
 Operation humidity.....25~85%RH
 EMI standards.....IEC-1000-3-2,3,FCC class B
 EMC standards.....EN61000-4-2,3,4,5,
 Vibration.....10~55HZ, 0.375mm amplitude at X,Y,Z axial for
 about 2h
 Shock.....294m/s² {30G} at 6 surfaces for three times
 Desire life.....>8 years(Load 50% at +40° C)
 Weight.....0.55kgs.

※ Type

Type No .	Output	Tol.	R & N	Effi .
SP-E060N012P-FB	5V : 0.3-4A	±2%	50mV	73%
	12V : 0.2-3A	±6%	100mV	
SP-E060N024P-FB	5V : 0.3-3A	±2%	50mV	76%
	24V : 0.2-1.8A	±5%	100mV	

120W Dual Output Switching Power Supply

PICTURE Case:D 199x110x50mm



FEATURES

- Low cost, high reliability
- High efficiency, low working temp.
- Built in EMI filter, low ripple noise
- Compact size, light weight
- 100% full load burn-in test
- Short circuit/ over load/ over voltageprotected
- International AC input/selected
- Approvals:CE/ CSA:219967-1426940
- 2 yeays warranty

TECHNICAL DATA

Input voltage.....85~264VAC universal input
 Input frequency.....47~63 HZ
 Inrush current.....cold start,30V
 Output voltage.....refer to belowtable (CH1:+10,-5% Addition.)
 Ripple.....<2%(p-p)
 Overload protection.....105%~135% output pulsing mode
 Over voltage protection...CH1:115%~135%V of output voltage
 Setup,rise,hold up time...200ms,50ms,20ms
 Withstand voltage.....I/P-O/P:3KV, I/P-FG: 1.5KV, 1min
 Insulation resistance.....>100M Ω (output) and (input,FG)
 Working temperature.....0-50°C @ 100%,-10°C @ 80%, 60°C @ 40%
 Storage temperature.....-25~65°C
 Operation humidity.....25~85%RH
 EMI standards.....IEC-1000-3-2,3,FCC class B
 EMC standards.....EN61000-4-2,3,4,5,
 Vibration.....10~55HZ, 0.375mm amplitude at X,Y,Z axial
 for about 2h
 Shock.....294m/s² {30G} at 6 surfaces for three times
 Desire life.....>8 years(Load 50% at +40° C)
 Weight.....0.55kgs

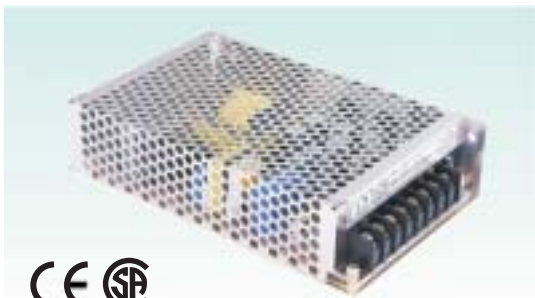
※ Type

Type No .	Output	Tol.	R & N	Effi .
SP-E120N012P-SC	5V : 2-12A	±2%	60mV	78%
	12V : 0.5-5A	±6%	120mV	
SP-E120N024P-SC	5V : 2-6A	±2%	60mV	80%
	24V : 0.4-4A	±7%	150mV	

ENCLOSED SWITCHING POWER SUPPLY-DUAL OUTPUT

50W Dual Isolated Output Switching Power Supply

PICTURE Case:A 159x97x38mm



FEATURES

- Low cost, high reliability
- High efficiency, low working temp.
- Built in EMI filter, low ripple noise
- Compact size, light weight
- 100% full load burn-in test
- Approvals:CE/ CSA:219967-1426940
- Short circuit/ over load/ over voltage protected
- Universal AC input/full range
- 1 Year warranty

TECHNICAL DATA

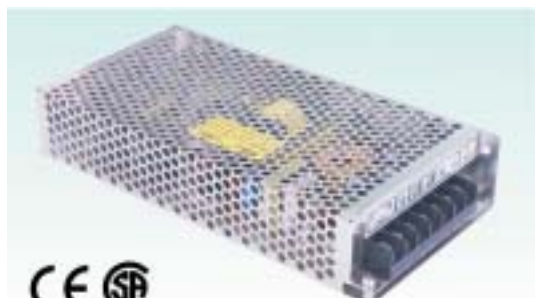
Input voltage 85 ~ 264VAC universal input
 Input frequency 47-63Hz
 Inrush current cold start, 15A/115V, 30A/ 230V
 Output voltage ADJ. 5V:4.75~5.5V, 12V:12~15V, 24V:24~30V
 Ripple <2%(p-p)
 Overload protection 105% ~ 150% output pulsing mode
 Over voltage protection CH1:125 ~ 150% of output voltage
 Setup, rise, hold up time 1.6S, 50ms, 20ms/230VAC
 Withstand voltage I/P-O/P:3KV, I/P-FG:1.5KV, 1min
 Insulation resistance >100M Ω (output) and (input,FG)
 Working temperature 0-50°C@100%, -10°C@80%, 60°C@60%
 Storage temperature -25~65°C
 Operation humidity 25~85%RH
 EMI Standards IEC-1000-3-2,3, FCC class B
 EMC Standards EN61000-4-2,3,4,5
 Vibration 10~55HZ, 0.375mm amplitude at X, Y, Z axial for about 2H
 Shock 294m/s²{30G} at 6 surfaces for three times
 Desire life >8 years (load 50% at +40°C)
 Weight 0.53kgs

※ Type

Type No .	Output	ToI.	R & N	Effi .
SP-E050D005P-FB	5V : 0.5-6A	±1%	50mV	69%
	5V : 0-2A	±2%	100mV	
SP-E050D13P5-FB	13.5V : 0.3-1.8A	±1%	100mV	72%
	13.5V : 0-1.8A	±2%	150mV	
SP-E050D027P-FB	27V : 0.18-0.9A	±1%	100mV	74%
	27V : 0-0.9A	±2%	150mV	
SP-E050N13P5-FB	5V : 1-5A	±1%	50mV	72%
	13.5V : 0-1.7A	±2%	150mV	

100W Dual Output Switching Power Supply

PICTURES Case:B 199x98x38mm



FEATURES

- Single output with 5V, 3A D-D converter
- Low cost, high reliability
- High efficiency, low working Temp.
- Built in EMI filter, low ripple noise
- Compact size, light weight
- 100% full load burn-in test
- Approvals:CE/ CSA:219967-1426940
- Short circuit/ over load/ over voltage protected
- International AC input selected
- 1 year warranty

TECHNICAL DATA

Input voltage 88 ~ 132VAC/176~264VAC selected by sw.
 Input frequency 47-63Hz
 Inrush current cold start, 20A/115V, 40A/230V
 Output voltage refer to below table (CH2:±10% ADJ.)
 Ripple <2%(p-p)
 Overload protection 105% ~ 150% output shutdown
 Over voltage protection CH2:115% ~ 135% of output voltage
 Setup, rise, hold up time 200ms, 50ms, 20ms
 Withstand voltage I/P-O/P:1.5KV, I/P-FG:1.5KV, 1min
 Insulation resistance >100M Ω (output) and (input,FG)
 Working temperature 0-45°C@100%, -10°C@80%, 60°C@60%
 Storage temperature -25~65°C
 Operation humidity 25~85%RH
 EMI Standards IEC-1000-3-2,3, FCC class B
 EMC Standards EN61000-4-2,3,4,5
 Vibration 10~55HZ, 0.375mm amplitude at X, Y, Z axial for about 2H
 Shock 294m/s²{30G} at 6 surfaces for three times
 Desire life >8 years (load 50% at +40°C)
 Weight 0.7kgs

※ Type

Type No .	Output	ToI.	R & N	Effi .
SP-E100N07P5-SC	5V : 0-3A	±3%	100mV	77%
	7.5V : 0-11.5A	±2%	150mV	
SP-E100N012P-SC	5V : 0-3A	±3%	100mV	79%
	12V : 0-7.2A	±1%	150mV	
SP-E100N024P-SC	5V : 0-3A	±3%	100mV	83%
	24V : 0-3.7A	±1%	150mV	

ENCLOSED SWITCHING POWER SUPPLY-DUAL OUTPUT

150W Dual Output Switching Power Supply

PICTURE Case:D 199x110x50mm



FEATURES

- Single output with 5V, 3A D-D converter
- Low cost, high reliability
- High efficiency, low working temp.
- Built in EMI filter, low ripple noise
- Compact size, light weight
- 100% full load burn-in test
- Approvals: CE/ CSA:219967-1426940
- Short circuit/ over load/ Over voltage protected
- International AC input selected
- 1 year warranty

TECHNICAL DATA

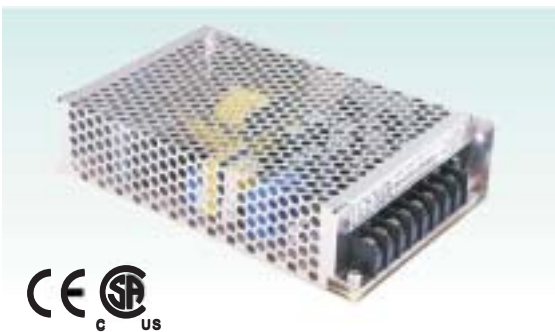
Input voltage. 88 ~ 132VAC/176 ~ 264VAC selected by sw.
 Input frequency. 47-63Hz
 Inrush current. cold start, 30A
 Output voltage. refer to below table (CH2: ± 10% AD J.)
 Ripple. <2%(p-p)
 Overload protection. 105% ~ 150% output shutdown
 Over voltage protection. CH2: 115% ~ 135% of output voltage
 Setup, rise, hold up time. 200s, 50ms, 20ms
 Withstand voltage. I/P-O/P:1.5KV, I/P-FG:1.5KV, 1min
 Insulation resistance. >100MΩ (output) and (input, FG)
 Working temperature. 0-45°C@100%, -10°C@80%, 60°C@60%
 Storage temperature. -25~65°C
 Operation humidity. 25~85%RH
 EMI Standards. IEC-1000-3-2,3, FCC class B
 EMC Standards. EN61000-4-2,3,4,5,
 Vibration. 10~55HZ, 0.375mm amplitude at X, Y, Z axial for about 2H
 Shock. 294m/s²{30G} at 6 surfaces for three times
 Desire life. >8 years (load 50% at +40°C)
 Weight. 0.9kgs

※ Type

Type No .	Output	Tol.	R & N	Effi.
SP-E150N07P5-SC	5V : 0-3A	±3%	100mV	78%
	7.5V : 0-18A	±2%	150mV	
SP-E150N012P-SC	5V : 0-3A	±3%	100mV	79%
	12V : 0-11.5A	±1%	150mV	
SP-E150N024P-SC	5V : 0-3A	±3%	100mV	83%
	24V : 0-5.8A	±1%	150mV	

50W Dual Output with Battery Charge

PICTURE Case:A 159x97x38mm



FEATURES

- Low Cost, high reliability
- High efficiency, low working temp.
- Built in EMI filter, low ripple noise
- Compact size, light weight
- 100% full load burn-in test
- Approvals: CE/ CSA:219967-1426940
- Short circuit/ over load/ battery low protected
- Universal AC input/full range
- 1 year warranty

TECHNICAL DATA

Input voltage. 85 ~ 264VAC universal input
 Input frequency. 47-63Hz
 Inrush current. cold start. 20A/115V, 40A/ 230V
 Output voltage AD J. 13V: 12 ~ 14.3V, 26V: 24 ~ 28V,
 Ripple. <2%(p-p)
 Overload protection. 105% ~ 150% 115VAC output pulsing mode
 Setup, rise, hold up time. 1.6s, 50ms, 16ms/115VAC
 800ms, 50ms, 60ms/230VAC
 Withstand voltage. I/P-O/P:3KV, I/P-FG:1.5KV, 1min
 Insulation resistance. >100MΩ (output) and (input, FG)
 Working temperature. 0-50°C@100%, -10°C@80%, 60°C@60%
 Storage temperature. -25~65°C
 Operation humidity. 25~85%RH
 EMI Standards. IEC-1000-3-2,3, FCC class B
 EMC Standards. EN61000-4-2,3,4,5,
 Vibration. 10~55HZ, 0.375mm amplitude at X, Y, Z axial for about 2H
 Shock. 294m/s²{30G} at 6 surfaces for three times
 Desire life. >8 years (load 50% at +40°C)
 Weight. 0.57kgs

※ Type

Type No .	Output	Tol.	R & N	Effi.
SP-E050N013P-FB	5V : 0-3A	±3%	100mV	71%
	13V : 0.1-2.5A	±1%	100mV	
SP-E050N026P-FB	5V : 0-3A	±3%	100mV	74%
	26V : 0.1-1.5A	±1%	100mV	

