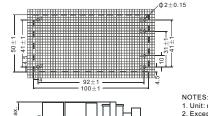


LO10-26D0512-04

RoHS

Three-phase three wire or four wire open frame AC-DC converter for electric meters

This AC-DC converter is designed for electric-meter application and operates over a very wide input voltage range: 65-460VAC or 90-650VDC. It means that this converter can operate with any two wires connection from the three-phase three wire or fourwire system. When failures happen in the lines system resulting in input over-voltage, the converter will shut down to protect itself and the terminal devices from damage, improving the reliability of the system. The product has two output voltages: 5V and 12V. The isolation voltage is 4000VAC between input and output, and two outputs. The product meets IEC/EN61000 "Burst (4kV)", "Surge (2kV/4kV)" and "EN55022 Class B Conduction/ Radiation". So it is a design solution for electric-meter application sourced from a three-phase AC supply with the requirement of high isolation voltage and rigorous EMC.



- 1. Unit: mm;
 2. Except especial explanation,
 the other tolerances are ±0.30m

 5. The tolerance are ±0.30m 3. FR-4, 1.6mm thick double sided
- glass fiber PCB; 4. 0.55mm black MYLAR insulating

sheet material.

FEA1	URES
------	-------------

- Ultra wide input voltage range: 65 ~ 460VAC/90 ~ 650VDC
- Any two wires connection from the three-phase three wire or four-wire system is available
- Conduction/Radiation: Class B
- Burst/Surge: Class 4
- Multi-output protection functions: over-current protection. short circuit protection, over-voltage protection
- Input under voltage lockout and over-voltage protection
- · High efficiency, high reliability
- · low ripple & noise, low standby power consumption
- High isolated: 4000VAC
- Long-life low-impedance electrolytic capacitors
- Multi-output, customized available



Pin	Name	Function Define			
1	ACL	AC voltage line wire(L wire) or DC voltage positive			
2	ACN	AC voltage neutral wire(N wire) or DC voltage negative			
3	OUT2+	The second output positive(+)			
4	OUT2-	The second output negative(-)			
5	OUT1-	The first output voltage negative(-)			
6	OUT1+	The first output voltage positive (+)			
OUTPU	OUTPUT SPECIFICATIONS				

OUT OF OF LOW TOATTO				
Output voltage(V)	OUT1: 5.1	OUT2: 12		
Output current(A)*3	1.2(Peak1.8)	0.4(Peak0.8)		
Input variation	±0.5%	±1.5%		
Load variation(balanced load)	±3%	±5%		
Ripple & noise voltage (mVp-p)*1	100Max	150Max		
Capacitor load max (µF)	4000	1200		
Output over-current protection*4	110~250%Peak@lo2=100%, auto-recovery	110~250%Peak@lo1=100% auto-recovery		
Efficiency(%)	79Typ @Vin=220Vac, lo=100%			
Output short circuit protection	Continuous, and auto recovery			
Output over voltage protection	Feedback-clamp			

LO10-24B13K

RoHS

Ultra wide input voltage range switched-mode power supply for electric-meter

The LO10-24B13K is designed for electric-meter application and operates over a very wide input voltage range: 30-280VAC or 30-400VDC, 13V single output. The isolation voltage is 4000VAC between input and output. The product meets IEC/EN61000 "Burst (4kV)", "Surge (2kV/4kV)" and "EN55022 Class B Conduction/ Radiation". So it supplies with the requirement of high isolation voltage and rigorous EMC.

FEATURES

- Ultra wide input voltage range: 30 ~ 280VAC/30 ~ 400VDC
- Conduction/Radiation: Class B
- Burst/Surge: Class 4
- Short circuit protection, over-voltage protection
- · High efficiency, high reliability
- . low ripple & noise, low standby power consumption
- High isolated: 4000VAC
- Long-life low-impedance electrolytic capacitors
- Gild pin, customized available



	15
40 ± 1	
	N 1
30.00max	2
Δ1 h2 5+0 15	3
φ1.5±0.15 +0	4

- NOTES: 1. Unit: mm;
- 2. Except especial explanation, the other tolerances are ±0.30m
- 3. FR-4. 1.6mm thick double sided
- glass fiber PCB;
 4. 0.55mm black MYLAR insulating sheet material.

Pin	Name	Function
1	ACL	AC voltage line wire(L wire) or DC voltage positive
2	ACN	AC voltage neutral wire(N wire) or DC voltage negative
3	NC	NC
4	No pin	No pin
5	OUT-	Output voltage negative(-)
6	OUT+	Output voltage positive(+)

OUTPUT SPECIFICATIONS					
Output voltage(V)	13				
Output current(A)	0.5				
Voltage set accuracy	±1%				
Input variation	±0.5%				
Load variation (10% to 100%)	±1%				
Ripple & ripple(mVp-p)	130Max				
Temperature drift(%/℃)	±0.02Max				
Efficiency (%)	75Typ @Vin=220Vac, Io=100%				
Output Short circuit protection	Continuous, and auto recovery				
Output over voltage protection	Voltage limited≤15				

LED DRIVER



AC-DC Converter

LD Series

RoHS c Nus (€ EN60601-1

UNIVERSAL INPUT VOLTAGE ISOLATED & REGULATED OUTPUT, MEDICAL ULTRAMINIATURE AC-DC CONVERTER

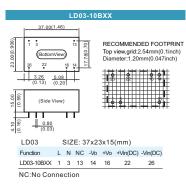
LD---- are high efficiency green power modules with least packaging provided by Mornsun. The features of this series are: wide input voltage, DC and AC all in one, high efficiency, high reliability, low loss, safety isolation etc. They are widely used in industrial, office, civil and medical equipments. EMC and safety standards meet international standards IEC61000, UL60950, EN60601 and IEC60950, and Multi-certificate is in processing.

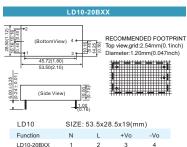
FEATURES

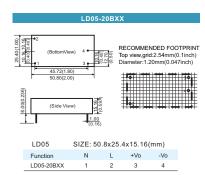
- Universal input voltage range:85~264VAC,120~370VDC
- AC and DC all in one (input from the same terminal)
- Low ripple & noise
- 4000VAC isolation
- Over output voltage protection ,
- Short circuit protection and over temperature
- High efficiency, high power density
- · Low loss, green power
- High electromagnetic compatibility
- Industrial, medical level specifications

SPECIFICATIONS

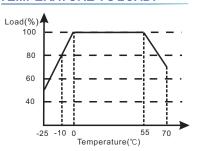
Temperature ranges	25℃ ~+70℃
Voltage set accuracy	±2%(3.3V:±3%)(typ)
Input variation	±0.5%(typ)
Load variation (10% to 100%)	± 1%(typ)
Short circuit protection	Continuous, and auto resume
Over temperature protection	150°C(max)
Hold-up time(Vin=230VAC)	LD03&LD05: 30ms(typ)
	LD10: 50ms(typ)
Switching frequency	LD03/05:100kHz(typ)
	LD10:60kHz(typ)
I/O-isolation voltage	LD03:3000VAC
	LD05&LD10: 4000VAC
EMI/RFI conducted	.LD03:EN55022,level A
	LD05:EN55011,level A
	LD10:EN55011,level B
MTBF	.>200,000h @25℃
Standby power consumption	.0.3W(typ)







TEMPERATURE VS LOAD:



Part Number	Power	Vout (VDC)	lout (VDC)	Ripple and Noise (typ)	Eff(typ) %	Certificate
LD03-10B03	2.3W	3.3	700mA		63	UL CE
LD03-10B05		5	600mA		72	UL CE
LD03-10B09		9	330mA	30mV	74	UL CE
LD03-10B12	3W	12	250mA	301117	76	UL CE
LD03-10B15		15	200mA		76	UL CE
LD03-10B24		24	125mA		78	UL CE
LD05-20B03	4.2W	3.3	1250mA	30mV	66	UL CE
LD05-20B05	5W	5	1000mA		72	UL CE
LD05-20B09		9	550mA		74	UL CE
LD05-20B12		12	420mA	00	76	UL CE
LD05-20B15		15	333mA		76	UL CE
LD05-20B24	5.5W	24	230mA		78	UL CE
LD10-20B03	6.6W	3.3	2000mA		70	UL CE
LD10-20B05		5	2000mA		74	UL CE
LD10-20B09		9	1100mA		76	UL CE
LD10-20B12	10W	12	900mA	50mV	76	UL CE
LD10-20B15		15	700mA		78	UL CE
LD10-20B24		24	450mA		80	UL CE

Note:LD05,LD10 series have got EN60601-1 LD03 Series: EN60601-1 pending

LHXX Series

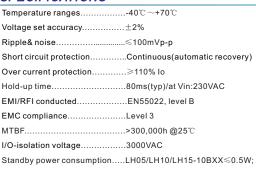
UNIVERSAL INPUT VOLTAGE ISOLATED & REGULATED OUTPUT **ULTRAMINIATURE AC-DC CONVERTER**

c™us (€ RoHS

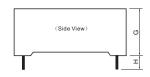
FEATURES

- Universal input:85~264VAC, 120~370VDC
- AC and DC all in one (input from the same terminal)
- Low ripple and noise
- 3000VAC isolation
- Over-current protection and short circuit protection
- · High efficiency, High power density
- · Low loss, green power
- High electromagnetic compatibility
- Industrial level specifications

SPECIFICATIONS



LH15(Other model)/LH20/LH25-10BXX \leqslant 0.75W



Unit:mm(inch) Pin section:1.00mm(0.039inch) Pin Length(H): \geq 6.00mm(\geq 0.236inch) Pin tolerances: \pm 0.1mm(\pm 0.004inch) General tolerances: ± 0.5 mm(± 0.020 inch)

OUTLINE AND DIMENSIONS

N0.	LH05	LH10	LH15	LH20	LH25
Α	12.5	17.5	17.5	20.0	20.0
В	48.5	55.0	62.0	70.0	70.0
С	40.5	47.0	54.0	62.0	62.0
D	4.0	5.0	5.0	5.75	5.75
Е	16.0	20.0	20.0	23.0	23.0
F	36.0	45.0	45.0	48.0	48.0
G	20.5	21.0	22.5	23.5	23.5
- 1	4.0	4.0	4.0	4.0	4.0
Н	6.0	6.0	6.0	6.0	6.0

FOOTPRINT DETAILS

PIN	THXX-10B	LHXX-10A	LHXX-10C	LHXX-10D	
1	±*	÷	<u></u>	+	
2	AC(N)	AC(N)	AC(N)	AC(N)	
3	AC(L)	AC(L)	AC(L)	AC(L)	
4	-Vo	-Vo	-Vo1	-Vo1	
5	No Pin	No Pin	+Vo1	+Vo1	
6	No Pin	COM	-Vo2	No Pin	
7	No Pin	No Pin	COM	-Vo2	
8	+Vo	+Vo	+Vo2	+Vo2	
Trim	Trim**	No Pin	No Pin	No Pin	

±* :There is no Pin 1 ± on LH15-10BXX.. Trim**:Only For LH20/25-10BXXSeries。

MODLES WEIGHT

WEIGHT	LH05	LH10	LH15	LH20	LH25
(TYP)	50g	70g	80g	120g	120g

PRODUCT PROGRAM

TROBUUTT	110011	, ,,,,,				
Part Number	Power	Output (Vo1/Io1)	Output (Vo2/Io2)	Load Regulation	Eff (TYP)	Certificate
LH05-10B03	4W	3.3V/1250mA		±1%	65	UL CE
LH05-10B05		5V/1000mA				UL CE
LH05-10B09		9V/550mA				UL CE
LH05-10B12	5W	12V/420mA		±1%	76	UL CE
LH05-10B15		15V/330mA				UL CE
LH05-10B24		24V/230mA				UL CE
LH05-10A05		+5V/500mA	-5V/500mA			
LH05-10A12	5W	+12V/210mA	-12V/210mA	±2%	76	
LH05-10A15	SVV	+15V/160mA	-15V/160mA	±270	76	
LH05-10A24		+24V/100mA	-24V/100mA			
LH05-10C0505-01		5V/800mA	± 5V/100mA			
LH05-10C0512-01	5W	5V/600mA	± 12V/100mA	Main:±3%	70	
LH05-10C0515-01	SVV	5V/600mA	± 15V/80mA	Secondary: ±5%	76	
LH05-10C0524-01		5V/600mA	±24V/50mA			
LH05-10D0505-01		5V/900mA	5V/100mA			
LH05-10D0512-01	5W	5V/750mA	12V/100mA	Main:±3%	76	
LH05-10D0515-01	011	5V/700mA	15V/100mA	Secondary: ±5%		
LH05-10D0524-01		5V/600mA	24V/100mA			
LH10-10B03	6.6W	3.3V/2000mA		±1%	70	UL CE
LH10-10B05		5V/2000mA				UL CE
LH10-10B09		9V/1100mA		±1%	78	UL CE
LH10-10B12	10W	12V/900mA		土 1 70	70	UL CE
LH10-10B15		15V/700mA				UL CE
LH10-10B24		24V/450mA				UL CE
LH10-10A05		+5V/1000mA	-5V/1000mA			UL CE
LH10-10A12	10W	+12V/450mA	-12V/450mA	±2%	78	UL CE
LH10-10A15	10 00	+15V/350mA	-15V/350mA			UL CE
LH10-10A24		+24V/200mA	-24V/200mA			UL CE
LH10-10C0505-04		5V/1200mA	± 5V/400mA			
LH10-10C0512-02	10W	5V/1000mA	± 12V/200mA	Main:±3%	78	
LH10-10C0515-02	1000	5V/900mA	± 15V/200mA	Secondary: ±5%		
LH10-10C0524-01		5V/1000mA	± 24V/100mA			
LH10-10D0505-02		5V/1800mA	5V/200mA			UL CE
LH10-10D0512-02	10W	5V/1500mA	12V/200mA	Main:±3%	78	UL CE
LH10-10D0515-02	1000	5V/1400mA	15V/200mA	Secondary: ±5%	70	UL CE
LH10-10D0524-02		5V/1000mA	24V/200mA			UL CE

Part Number	Power	Output (Vo1/lo1)	Output (Vo2/lo2)	Load Regulation	Eff (TYP) %	Certificate
LH15-10B03	9.9W	3.3V/3000mA		±1%	73	UL CE
LH15-10B05 LH15-10B09 LH15-10B12 LH15-10B15	15W	5V/2800mA 9V/1600mA 12V/1250mA 15V/1000mA		±1%	80	UL CE UL CE UL CE
LH15-10B24 LH15-10B48		24V/625mA 48V/320mA	51//4500			UL CE
LH15-10A05 LH15-10A12 LH15-10A15	15W	+5V/1500mA +12V/650mA +15V/500mA	-5V/1500mA -12V/650mA -15V/500mA	±2%	80	
LH15-10C0505-05 LH15-10C0512-02 LH15-10C0515-02 LH15-10C0524-01	15W	5V/2000mA 5V/2000mA 5V/1800mA 5V/2000mA	± 5V/500mA ± 12V/200mA ± 15V/200mA ± 24V/100mA	Main:±3% Secondary:±5%	80	
LH15-10D0505-08 LH15-10D0512-04 LH15-10D0515-03 LH15-10D0524-02	15W	5V/2200mA 5V/2000mA 5V/2000mA 5V/2000mA	5V/800mA 12V/400mA 15V/300mA 24V/200mA	Main:±3% Secondary:±5%	80	
LH20-10B03		3.3V/4100mA		±2%	69	UL CE
LH20-10B05 LH20-10B12 LH20-10B15 LH20-10B24	20W	5V/3500mA 12V/1600mA 15V/1300mA 24V/850mA		±1%	82	UL CE UL CE UL CE
LH20-10A05 LH20-10A12 LH20-10A15	20W	+5V/2000mA +12V/830mA +15V/650mA	-5V/2000mA -12V/830mA -15V/650mA	±2%	82	
LH20-10C0505-05 LH20-10C0512-04 LH20-10C0515-03 LH20-10C0524-02	20W	5V/2500mA 5V/2000mA 5V/2000mA 5V/2000mA	± 5V/500mA ± 12V/400mA ± 15V/300mA ± 24V/200mA	Main:±3% Secondary:±5%	82	
LH20-10D0505-10 LH20-10D0512-06 LH20-10D0515-05 LH20-10D0524-03	20W	5V/3000mA 5V/2500mA 5V/2500mA 5V/2500mA	5V/1000mA 12V/600mA 15V/500mA 24V/300mA	Main:±3% Secondary:±5%	82	
LH25-10B05		5V/4100mA			74	UL CE
LH25-10B12 LH25-10B15 LH25-10B24 LH25-10B48	25W	12V/2100mA 15V/1600mA 24V/1100mA 48V/500mA		±1%	85	UL CE UL CE UL CE

LED DRIVER

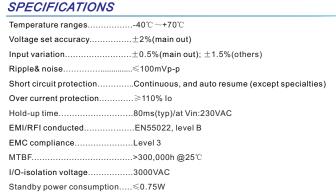


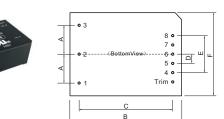
LBXX Series

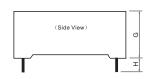
UNIVERSAL INPUT VOLTAGE ISOLATED & REGULATED OUTPUT HIGH RELIABILITY AC-DC CONVERTER

FEATURES

- Universal input:85~264VAC, 120~370VDC
- AC and DC all in one (input from the same terminal)
- Low ripple and noise
- 3000VAC isolation
- · Over-current protection and short circuit protection
- High efficiency
- Low loss, green power
- High electromagnetic compatibility
- · Wider temperature range, high reliability







Note: Unit:mm(inch) Pin section:1.00mm(0.039inch) Pin Length(H): \geq 6.00mm(\geq 0.236inch) Pin tolerances: \pm 0.1mm(\pm 0.004inch) General tolerances: \pm 0.5mm(\pm 0.020inch)

RoHS CALUS CE

OUTLINE AND DIMENSIONS

N0.	LB03	LB05	LB10	LB15
Α	12.5	17.5	17.5	20.0
В	48.5	55.0	62.0	70.0
С	40.5	47.0	54.0	62.0
D	4.0	5.0	5.0	5.75
Е	16.0	20.0	20.0	23.0
F	36.0	45.0	45.0	48.0
G	20.5	21.0	22.5	23.5
Н	6.0	6.0	6.0	6.0

FOOTPRINT DETAILS

Pin	LBXX-10B	LBXX-10A	LBXX-10C	LBXX-10D
1	±*	÷	Ť	÷
2	AC(N)	AC(N)	AC(N)	AC(N)
3	AC(L)	AC(L)	AC(L)	AC(L)
4	-Vo	-Vo	-Vo1	-Vo1
5	No Pin	No Pin	+Vo1	+Vo1
6	No Pin	COM	-Vo2	No Pin
7	No Pin	No Pin	COM	-Vo2
8	+Vo	+Vo	+Vo2	+Vo2
Trim	Trim**	No Pin	No Pin	No Pin

 \pm^* : There is no Pin \pm on LH15-10BXX. Trim**: Only For LB15-10BXX Series.

MODLES WEIGHT

WEIGHT	LB05	LB10	LB15	LB20
(TYP)	50g	70g	80g	120g

PRODUCT PROGRAM

Part Number	Power	Output (Vo1/lo1)	Output (Vo2/Io2)	Ripple and Noise(Typ.)	Eff (TYP) %	Certificate
LB03-10B03		3.3V/1000mA			68	UL CE
LB03-10B05		5V/600mA			71	UL CE
LB03-10B12	3W	12V/250mA		50mV	74	UL CE
LB03-10B15		15V/200mA			75	UL CE
LB03-10B24		24V/125mA			77	UL CE
LB05-10B03		3.3V/1500mA			70	UL CE
LB05-10B05		5V/1000mA			73	UL CE
LB05-10B09	5W	9V/600mA		50mV	75	UL CE
LB05-10B12	011	12V/450mA		00	76	UL CE
LB05-10B15		15V/350mA			78	UL CE
LB05-10B24		24V/230mA			79	UL CE
LB05-10A05		+5V/500mA	-5V/500mA		70	UL CE
LB05-10A12	5W	+12V/210mA	-12V/210mA	50mV	74	UL CE
LB05-10A15	0	+15V/170mA	-15V/170mA	Comv	75	UL CE
LB05-10A24		+24V/100mA	-24V/100mA		77	UL CE
LB05-10D0505-01		+5V/900mA	+5V/100mA		70	UL CE
LB05-10D0512-01	5W	+5V/750mA	+12V/100mA	50mV	74	UL CE
LB05-10D0515-01	0.1	+5V/700mA	+15V/100mA	Comv	74	UL CE
LB05-10D0524-01		+5V/600mA	+24V/100mA		75	UL CE

Part Number	Power	Output (Vo1/lo1)	Output (Vo2/Io2)	Ripple and Noise(Typ.)	Eff (TYP)	Certificate
LB10-10B03		3.3V/3000mA			70	
LB10-10B05		5V/2000mA			73	
LB10-10B09	10W	9V/1100mA		50mV	77	
LB10-10B12		12V/900mA		001111	78	
LB10-10B15		15V/700mA			78	
LB10-10B24		24V/450mA			80	
LB10-10A05		+5V/1000mA	-5V/1000mA		73	
LB10-10A12	10W	+12V/450mA	-12V/450mA	50mV	78	
LB10-10A15		+15V/350mA	-15V/350mA		79	
LB10-10D0505-021	11W	5V/2000mA	5V/200mA		72	
LB15-10B03		3.3V/3500mA			71	UL CE
LB15-10B05		5V/3000mA			74	UL CE
LB15-10B12	15W	12V/1250mA		50mV	79	UL CE
LB15-10B15		15V/1000mA			80	UL CE
LB15-10B24		24V/625mA			81	UL CE



LI24 Series

UNIVERSAL INPUT VOLTAGE ISOLATED & REGULATED OUTPUT, DIN-RAIL POWER SUPPLIES



LI24 is a series of DIN-Rail green power supplies with high efficiency and excellent price/performance ratio provided by MORNSUN. This series provide stability and high immunity against electrical disturbance for loads in industrial process controls, machine tools and other equipment exposed to a difficult industrial environment. Compact size,

light weight, standard Din Rail installation (35mm) and other features of these power supplies, which saves a lot of space for your design. Build-in large capacitor provides for you enough hold-up time.

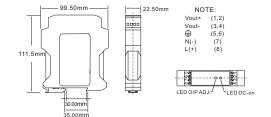
FEATURES

- Universal input voltage: 90~264VAC,120~370VDC
- AC and DC all in one (input from the same terminal)
- Output voltage adjustable
- Low ripple & noise
- Input under voltage lockout
- · Overload and short-circuit protection
- High electromagnetic compatibility
- Meet product standards of industrial class



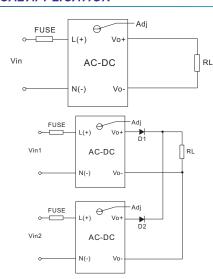
SPECIFICATIONS

Temperature ranges	25℃ ~+70℃
Temperature coefficient	.0.02%℃
Switching frequency	60kHz
Efficiency	85%(typ)
Isolation voltage	.3000VAC
MTBF	>200,000h @25℃
Input under voltage lockout	80VAC(±10%)
Load variation (10% - 90%)	±1%
ripple & noise(20M Bandwidth)	50mV (typ)
Short circuit protection	Continuous(automatic recovery)
Over current protection:LI24-10B05	4.4A (typ)
LI24-10B12	2.4A (typ)
LI24-10B24	1.3A (typ)
Hold-up time	.80ms(typ)
Cooling	Free air convection



Part Number	Power	Vout (VDC)	lout (VDC)	Ripple and Noise (typ)	Eff(typ) %
LI24-10B05	24W	5	4±0.1A	50mV	75
LI24-10B12	24W	12	2±0.1A	50mV	85
LI24-10B24	24W	24	1±0.05A	50mV	87

TYPICAL APPLICATION



General Application

- 1. Vin: 90 264VAC or 120 370VDC;
- 2. Adj: Adjusting terminal of output voltage. Users can adjust any load freely within the range of output voltage according to your own Need.

Parallel connection Application

- 1. Two same Din Rail power supplies are in use of parallel connection application, Vin1 and Vin2 are both 90-264VAC or
- 2. Adj: Adjusting terminal of output voltage. Users can adjust any load freely within the range of output voltage according to your own need.
- 3. When AC-DC2's output voltage is a little lower than AC-DC1's, AC-DC2 is becoming a spare power supply for load, as Vin1 is off or AC-DC1 is in fault.
- 4. When Vin1 and Vin2 are supplying power to Din Rail power supply alternately, Din Rail power supply will work alternately and supply power to load sostenuto.



LS03 Series

3W, HIGH VOLTAGE DC-DC(AC-DC) CONVERTER

LS ----- are high efficiency green power modules with miniature packaging provided by Mornsun. The features of this series are: wide input voltage, DC and AC all in one, high efficiency, high reliability, low loss, safety isolation etc. They are widely used in industrial, office and civil equipments, as well as applications where no special requirement for EMC performance. It is recommended to add EMI suppression circuit or take measure to shield when there is strict requirement for EMC performance.

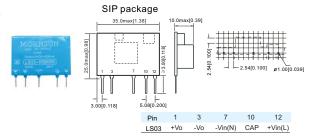
PRODUCT FEATURES

- Wide input voltage:100~400VDC(85~264VAC)
- Over temperature protection and short circuit protection
- Low ripple & noise
- 2000VAC Isolation
- · High efficiency,Low loss, green power
- Multiple models available
- · Industrial level specifications

COMMON SPECIFICATIONS

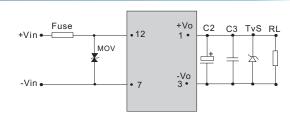
Input current	40mA (typ)
Voltage set accuracy	± 2%
Input variation	. ± 0.5% (typ)
Load variation (10%-100%)	. ± 1% (typ)
Ripple& noise (20MHz Bandwidth)	100mVp-p(typ)
Short circuit protection	Continuous, automatic recovery
Over temperature protection	150℃(max)
Temperature ranges:Operating	40℃∼+85℃
Storage	40℃∼+105℃
Humidity	85%(max)
Temperature drift	. ± 0.02%/℃(typ)
Switching frequency	100kHz(typ)
Efficiency	75%(typ)
I/O-isolation voltage	2000VAC/1Min
Case material	UL94V-0
Install	PCB
MTBF	>200,000h @25℃
standby power consumption	.≤0.3W

RoHS

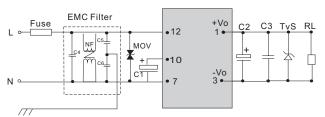


Part Number	Power	Vout (VDC)	lout (mA)	Ripple & Noise (typ)	Eff(TYP) %
LS03-05B03S	1.65W	3.3	500	50mV	70
LS03-05B05S	2.5W	5	500		70
LS03-05B09S		9	330		75
LS03-05B12S	3W	12	250	4001/	78
LS03-05B15S	300	15	200	100mV	78
LS03-05B24S		24	125		78

TYPICAL APPLICATIONS



LS03 DC input typical application



LS03 AC input typical application

EXTERNAL CAPACITORS TYPICAL VALUE

Output Voltage	C1	C2	C3	FUSE	TVS
3.3V		150uF/			B.4450.04
5V	10uF/	25V			P4KE6.8A
9V	400V		0.1uF/ 50V	0.5A/250V	P4KE12A
12V			30 V		DAKEOOA
15V		100uF/			P4KE20A
24V		35V			P4KE33A