

# Ultra-wide Input Isolated, Regulated Series



## PWA\_LT-1W5 & PWB\_LT-1W5 Series

ULTRA-WIDE INPUT, ISOLATED & REGULATED  
DUAL/SINGLE OUTPUT DC-DC CONVERTER

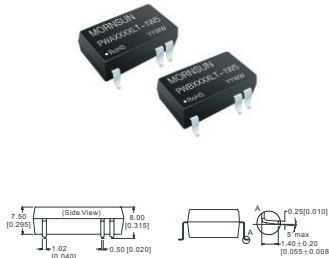
RoHS

### FEATURES

- Operating Temperature: -40°C ~ +85°C
- 1500VDC Input/Output Isolation
- Ultra Wide(4:1) Input Range
- Short Circuit Protection (automatic recovery)
- Low Ripple and Noise
- Internal SMD Construction
- UL94-V0 Package

### SPECIFICATIONS

Positive voltage accuracy.....	±1%(typ)
Negative voltage accuracy.....	±3%(typ)
Line regulation: Input voltage from low to high.....	±0.2%(typ)
Load regulation: from 10% to 100% load.....	±0.5%(typ)
Temperature drift.....	±0.03%/°C(max)
Ripple & Noise: 20MHz Bandwidth.....	100mVp-p(max)
Switching frequency: Nominal, full load.....	550KHz(PFM)
Isolation resistance.....	1000MΩ (min)
MTBF.....	1,000,000 hours(min)
Cooling.....	Free air convection

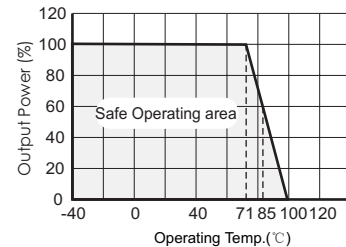


RECOMMENDED FOOTPRINT  
Top view, grid: 2.54mm(0.1inch)

Part Number	SIZE: 23.86x13.70x8.00(mm)
PWA/B_LT-1W5	SIZE: 23.86x13.70x8.00(mm)
Function	GND 0V Vin +Vo -Vo NC
PWA_LT	1 8 16 9 10 7
PWB_LT	1 10 16 9 - 7,8

NC: No Connection.

### TYPICAL TEMPERATURE CURVE



Part Number	Vin (VDC)	Input Range (VDC)	Vout (VDC)	Iout (mA)	Eff(TYP) %
PWA2405LT-1W5	24	9-36	±5	±150	74
PWA2412LT-1W5			±12	±63	77
PWA2415LT-1W5			±15	±50	75
PWB2405LT-1W5			5	300	76
PWB2412LT-1W5	24	9-36	12	125	79
PWB2415LT-1W5			15	100	80
PWA4805LT-1W5			±5	±150	74
PWA4812LT-1W5	48	18-72	±12	±63	76
PWA4815LT-1W5			±15	±50	76
PWB4805LT-1W5			5	300	75
PWB4812LT-1W5	48	18-72	12	125	77
PWB4815LT-1W5			15	100	77

## PWA/B\_(M)D-1W5 & PWA/B\_(M)D-3W Series

ULTRA-WIDE INPUT, ISOLATED & REGULATED  
DUAL/SINGLE OUTPUT DC-DC CONVERTER

RoHS

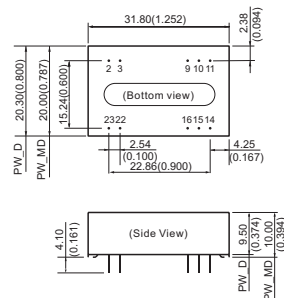
### FEATURES

- Operating Temperature: -40°C ~ +85°C
- Ultra Wide(4:1) Input Range
- 1500VDC Input/Output Isolation
- Short Circuit Protection (automatic recovery)
- Internal SMD Construction



### SPECIFICATIONS

Positive voltage accuracy.....	±1%(typ)
Negative voltage accuracy.....	±3%(typ)
Line regulation: Input voltage from low to high.....	±0.2%(typ)
Load regulation: From 10% to 100% load.....	±0.5%(typ)
Temperature drift: Refer to recommended circuit.....	±0.03%/°C(max)
Ripple & Noise: 20MHz bandwidth.....	100mVp-p(max)
Switching frequency: Nominal, full load.....	300KHz(PFM)
Isolation resistance.....	1000MΩ (min)
MTBF.....	1,000,000 hours(min)
Cooling.....	Free air convection



RECOMMENDED FOOTPRINT  
Top view, grid: 2.54mm(0.1inch)  
Diameter: 1.00mm(0.039inch)

Part Number	SIZE: 31.8x20.3x9.5(mm)
PWA/B_(M)D	SIZE: 31.8x20.3x9.5(mm)
Pin	GND 0V NC -Vo +Vo 0V Vin
PWA	2,3 9 10,15 11 14 16 22,23
PWB	2,3 - 9,10,11,15 - 14 16 22,23

NC: No Connection.

Part Number	Vin (VDC)	Input Range (VDC)	Vout (VDC)	Iout (mA)	Eff(TYP) %
PWA2405(M)D-1W5	24	9-36	±5	±150	74
PWA2412(M)D-1W5			±12	±63	78
PWA2415(M)D-1W5			±15	±50	79
PWB2403(M)D-1W5			3.3	455	72
PWB2405(M)D-1W5	24	9-36	5	300	74
PWB2412(M)D-1W5			12	125	78
PWB2415(M)D-1W5			15	100	80
PWA4805(M)D-1W5			±5	±150	74
PWA4812(M)D-1W5	48	18-72	±12	±63	78
PWA4815(M)D-1W5			±15	±50	80
PWB4803(M)D-1W5			3.3	455	72
PWB4805(M)D-1W5	48	18-72	5	300	74
PWB4812(M)D-1W5			12	125	78
PWB4815(M)D-1W5			15	100	80
PWA2405(M)D-3W			±5	±300	76
PWA2412(M)D-3W	24	9-36	±12	±125	80
PWA2415(M)D-3W			±15	±100	80
PWB2403(M)D-3W			3.3	909	74
PWB2405(M)D-3W	24	9-36	5	600	76
PWB2412(M)D-3W			12	250	80
PWB2415(M)D-3W			15	200	80
PWA4805(M)D-3W			±5	±300	76
PWA4812(M)D-3W	48	18-72	±12	±125	80
PWA4815(M)D-3W			±15	±100	80
PWB4803(M)D-3W			3.3	909	74
PWB4805(M)D-3W	48	18-72	5	600	78
PWB4812(M)D-3W			12	250	80
PWB4815(M)D-3W			15	200	80

Note: D: Plastic (UL94-V0) MD: Metal package



# Ultra-Wide Input Isolated, Regulated Series

## PWA\_CS-2W & PWB\_CS-2W Series

ULTRA-WIDE INPUT, ISOLATED & REGULATED  
DUAL/SINGLE OUTPUT DC-DC CONVERTER

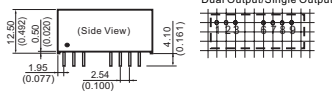
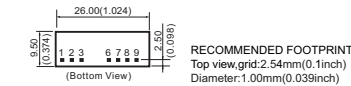
RoHS

### FEATURES

- Operating Temperature: -40°C ~ +85°C
- Ultra Wide(4:1) Input Range
- 1500VDC Input/Output Isolation
- Short circuit protection (automatic recovery)
- Low Ripple and Noise
- Internal SMD construction
- UL94-V0 package
- Remote ON/OFF control

### SPECIFICATIONS

Positive voltage accuracy.....±1%(typ)  
 Negative voltage accuracy.....±3%(typ)  
 Line regulation: Input voltage from low to high.....±0.2%(typ)  
 Load regulation: From 10% to 100% load.....±0.5%(typ)  
 Temperature drift: Refer to recommended circuit....±0.03%/°C(max)  
 Ripple & Noise: 20MHz Bandwidth.....100mVp-p(max)  
 Switching frequency: Nominal, full load.....300KHz(PFM)  
 Isolation resistance.....1000MΩ(min)  
 MTBF.....1,000,000 hours(min)  
 Cooling.....Free air convection



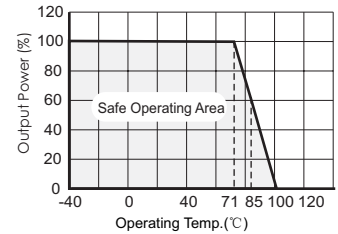
RECOMMENDED FOOTPRINT  
Top view, grid: 2.54mm(0.1inch)  
Diameter: 1.00mm(0.039inch)

Dual Output/Single Output

Part Number	Function	GND	Vin	CTRL	+Vo	0V	NC	-Vo
PWA_CS-2W	1	2	3	6	7	8	9	-
PWB_CS	1	2	3	6	9	7,8	-	-

NC: No Connection.

### TYPICAL TEMPERATURE CURVE



Part Number	Vin (VDC)	Input Range (VDC)	Vout (VDC)	Iout (mA)	Eff(TYP) %
PWA2405CS-2W	24	9-36	±5	±200	76
PWA2412CS-2W			±12	±83	80
PWA2415CS-2W			±15	±67	79
PWB2405CS-2W	24	9-36	5	400	76
PWB2412CS-2W			12	167	80
PWB2415CS-2W			15	133	79
PWA4805CS-2W	48	18-72	±5	±200	76
PWA4812CS-2W			±12	±83	81
PWA4815CS-2W			±15	±67	80
PWB4805CS-2W	48	18-72	5	400	76
PWB4812CS-2W			12	167	81
PWB4815CS-2W			15	133	80

## PWA/B\_MD-6W & PWE/F\_D-6W Series

ULTRA-WIDE INPUT, ISOLATED & REGULATED  
DUAL/SINGLE OUTPUT DC-DC CONVERTER

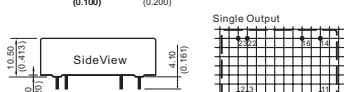
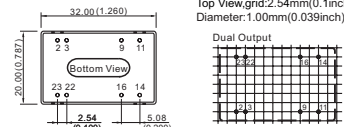
RoHS

### FEATURES

- Operating Temperature: -40°C ~ +85°C
- Ultra Wide(4:1) Input Range
- DIP package
- PWA/B\_MD: 1500VDC Isolation  
PWE/F\_D: 3000VDC Isolation
- Short Circuit Protection (automatic recovery)
- Internal SMD construction



PWA/B\_MD-6W  
RECOMMENDED FOOTPRINT  
Top View, grid: 2.54mm(0.1inch)  
Diameter: 1.00mm(0.039inch)

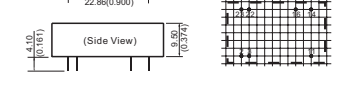
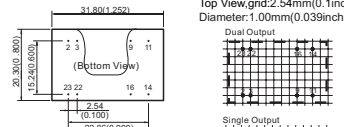


SIZE: 32.0x20.0x10.5(mm)

Function	GND	COM	-Vo	NC	+Vo	0V	Vin
PWA_MD	2,3	9,16	11	-	14	-	22,23
PWB_MD	2,3	-	-	11	14	16	22,23

NC: No Connection

PWE/F\_D-6W  
RECOMMENDED FOOTPRINT  
Top View, grid: 2.54mm(0.1inch)  
Diameter: 1.00mm(0.039inch)



SIZE: 31.8x20.30x9.5(mm)

Function	GND	0V	-Vo	NC	+Vo	Vin
PWE_D	2,3	9,16	11	-	14	22,23
PWF_D	2,3	16	-	11	14	22,23

NC: No Connection

### SPECIFICATIONS

Positive voltage accuracy.....±1%(typ)  
 Negative voltage accuracy.....±3%(typ)  
 Line regulation: Input voltage from low to high.....±0.2%(typ)  
 Load regulation: From 10% to 100% load.....±0.5%(typ)  
 Temperature drift: Refer to recommended circuit....±0.03%/°C(max)  
 Ripple & Noise: 20MHz Bandwidth.....150mVp-p(max)  
 Switching frequency: Nominal, full load.....300KHz(PFM)  
 Storage temperature.....-55°C ~ +125°C  
 Isolation resistance.....1000MΩ(min)  
 MTBF.....1,000,000 hours(min)  
 Cooling.....Free air convection

### PWA/B\_MD-6W Series 1500VDC Isolation

Part Number	Vin (VDC)	Input Range (VDC)	Vout (VDC)	Iout (mA)	Eff(TYP) %
PWA2405MD-6W	24	9-36	±5	±600	80
PWA2412MD-6W			±12	±250	82
PWA2415MD-6W			±15	±200	84
PWB2405MD-6W	24	9-36	5	1200	80
PWB2412MD-6W			12	500	82
PWB2415MD-6W			15	400	83
PWA4805MD-6W	48	18-72	±5	±600	80
PWA4812MD-6W			±12	±250	82
PWA4815MD-6W			±15	±200	84
PWB4805MD-6W	48	18-72	5	1200	80
PWB4812MD-6W			12	500	81
PWB4815MD-6W			15	400	84

### PWE/F\_D-6W Series 3000VDC Isolation

Part Number	Vin (VDC)	Input Range (VDC)	Vout (VDC)	Iout (mA)	Eff(TYP) %
PWE2405D-6W	24	9-36	±5	±600	80
PWE2412D-6W			±12	±250	82
PWE2415D-6W			±15	±200	84
PWF2405D-6W	24	9-36	5	1200	80
PWF2412D-6W			12	500	82
PWF2415D-6W			15	400	83
PWE4805D-6W	48	18-72	±5	±600	80
PWE4812D-6W			±12	±250	82
PWE4815D-6W			±15	±200	84
PWF4805D-6W	48	18-72	5	1200	80
PWF4812D-6W			12	500	81
PWF4815D-6W			15	400	84

Note: D: Plastic(UL94-V0) MD: Metal

# Ultra-Wide Input Isolated, Regulated Series



## PWA\_YMD-6W & PWB\_YMD-6W Series

ULTRA-WIDE INPUT, ISOLATED & REGULATED  
DUAL/SINGLE OUTPUT DC-DC CONVERTER

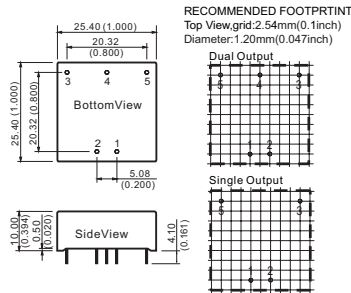
RoHS

### FEATURES

- Operating Temperature: -40°C ~ +85°C
- Ultra Wide(4:1) Input Range
- 1500VDC Input/Output Isolation
- Short Circuit Protection (automatic recovery)
- Internal SMD construction

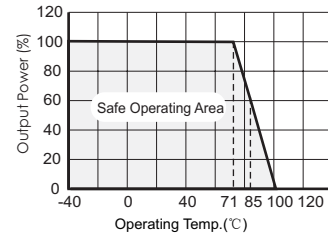
### SPECIFICATIONS

Positive voltage accuracy.....	±1%(typ)
Negative voltage accuracy.....	±3%(typ)
Line regulation: Input voltage from low to high....	±0.2%(typ)
Load regulation: From 10% to 100% load.....	±0.5%(typ)
Temperature drift: Refer to recommended circuit....	±0.03%/°C(max)
Ripple & Noise: 20MHz bandwidth.....	100mVp-p(max)
Switching frequency: Nominal, full load.....	300KHz(PFM)
Isolation resistance.....	1000MΩ (min)
MTBF.....	1,000,000 hours(min)
Cooling.....	Free air convection



PWA/B_YMD	Function	GND	Vin	+Vo	0V	-Vo
PWA_YMD	1	2	3	4	5	
PWB_YMD	1	2	3	5	-	

### TYPICAL TEMPERATURE CURVE



Part Number	Vin (VDC)	Input Range (VDC)	Vout (VDC)	Iout (mA)	Eff(TYP) %
PWA2405YMD-6W	24	9-36	±5	±600	80
PWA2412YMD-6W			±12	±250	82
PWA2415YMD-6W			±15	±200	84
PWB2405YMD-6W	24	9-36	5	1200	80
PWB2412YMD-6W			12	500	82
PWB2415YMD-6W			15	400	84
PWA4805YMD-6W	48	18-72	±5	±600	80
PWA4812YMD-6W			±12	±250	82
PWA4815YMD-6W			±15	±200	84
PWB4805YMD-6W	48	18-72	5	1200	80
PWB4812YMD-6W			12	500	82
PWB4815YMD-6W			15	400	84

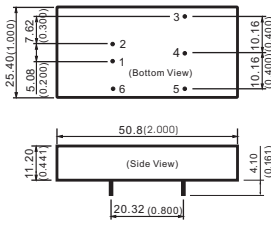
## PWA\_(C)D-10W & PWB\_(C)D-10W Series

ULTRA-WIDE INPUT, ISOLATED & REGULATED  
DUAL/SINGLE OUTPUT DC-DC CONVERTER

RoHS

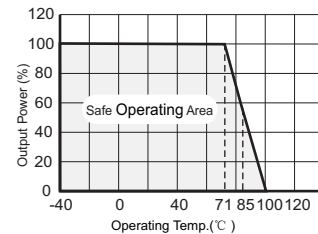
### FEATURES

- Operating Temperature: -40°C ~ +85°C
- Ultra Wide(4:1) Input Range
- DIP package
- I/O-Isolation 1500VDC
- Metal shielding Package
- Short circuit protection (automatic recovery)
- Industry Standard Pinout



PWA/B_(C)D-10W	Function	GND	Vin	+Vo	COM	-Vo	CTRL
PWA_D	1	2	3	4	5	-	-
PWB_D	1	2	3	-	-	5	-
PWA_CD	1	2	3	4	5	-	6
PWB_CD	1	2	3	-	-	5	6

### TYPICAL TEMPERATURE CURVE



Part Number	Vin (VDC)	Input Range (VDC)	Vout (VDC)	Iout (mA)	Eff(TYP) %
PWA2405(C)D-10W	24	9-36	±5	±1000	80
PWA2412(C)D-10W			±12	±416	82
PWA2415(C)D-10W			±15	±333	83
PWB2405(C)D-10W	24	9-36	5	2000	79
PWB2412(C)D-10W			12	830	81
PWB2415(C)D-10W			15	670	82
# PWA4805(C)D-10W	48	18-75	±5	±1000	79
PWA4812(C)D-10W			±12	±416	82
PWA4815(C)D-10W			±15	±333	83
# PWB4805(C)D-10W	48	18-75	5	2000	79
* PWB4812(C)D-10W			12	830	82
PWB4815(C)D-10W			15	670	83

Note: \*\*\* Designing

### SPECIFICATIONS

Positive voltage accuracy.....	±1%(typ)
Negative voltage accuracy.....	±3%(typ)
Line regulation: Input voltage from low to high....	±0.2%(typ)
Load regulation: From 10% to 100% load....	±0.5%(typ)
Temperature drift: Refer to recommended circuit....	±0.02%/°C(max)
Ripple & Noise: 20MHz Bandwidth.....	150mVp-p(max)
Switching frequency: Nominal, full load.....	marked"#": 300KHz(PWM) Other: 300KHz(PFM)
Storage temperature.....	-55°C ~ +125°C
Isolation resistance.....	1000MΩ (min)
MTBF.....	1,000,000 hours(min)
Cooling.....	Free air convection

AC-DC SERIES

DC-DC FIXED INPUT ISOLATED/UNREGULATED

DC-DC FIXED INPUT ISOLATED/REGULATED

DC-DC WIDE INPUT ISOLATED/REGULATED

DC-DC ULTRA-WIDE INPUT ISOLATED/REGULATED

DC-DC WIDE INPUT NON-ISOLATED/REGULATED

LED DRIVER

IGBT DRIVER

ISOLATION AMPLIFIER MODULE



# Ultra-Wide Input Isolated, Regulated Series

## URB\_MP-12W Series

ULTRA-WIDE INPUT, ISOLATED & REGULATED  
SINGLE OUTPUT DC-DC CONVERTER

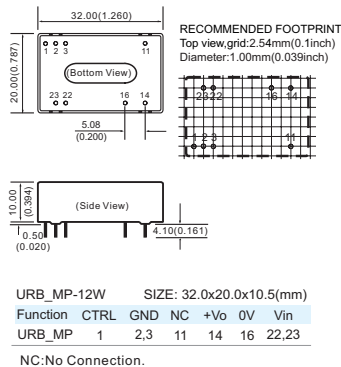
RoHS

### FEATURES

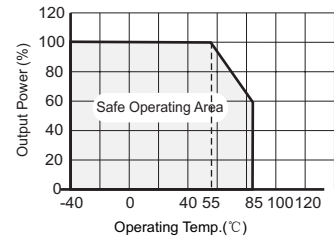
- Operating Temperature: -40°C ~ +85°C
- Ultra Wide(4:1) Input Range
- Efficiency up to 88%
- 1500VDC Input/Output Isolation
- Remote ON/OFF
- Under voltage lockout
- Over Voltage Protection
- Short Circuit Protection(automatic recovery)
- Metal Shielding Package
- DIP24 Package; Industry Standard Pinout

### SPECIFICATIONS

Output voltage accuracy.....	± 1% (typ)
Line regulation: Input voltage from low to high.....	± 0.2% (typ)
Load regulation: From 10% to 100% load.....	± 0.5% (typ)
Temperature drift : Refer to recommended circuit.....	± 0.02%/°C (typ)
Ripple & Noise: 20MHz Bandwidth.....	85mVp-p (max)
Switching frequency: Nominal, full load.....	400KHz (typ)
Storage temperature.....	-55°C ~ +125°C
Isolation resistance.....	1000MΩ (min)
MTBF.....	1,000,000 hours (min)
Cooling.....	Free air convection



### TYPICAL TEMPERATURE CURVE



Part Number	Vin (VDC)	Input Range (VDC)	Vout (VDC)	Iout (mA)	Eff(TYP) %
URB2403MP-12W	24	9-36	3.3	3500	85
URB2405MP-12W			5	2400	86
URB2412MP-12W			12	1000	86
URB2415MP-12W			15	800	86
URB4803MP-12W	48	18-75	3.3	3500	85
URB4805MP-12W			5	2400	87
URB4812MP-12W			12	1000	87
URB4815MP-12W			15	800	88

## URA\_LD-15W & URA\_LD-20W Series

ULTRA-WIDE INPUT, ISOLATED & REGULATED  
DUAL OUTPUT DC-DC CONVERTER

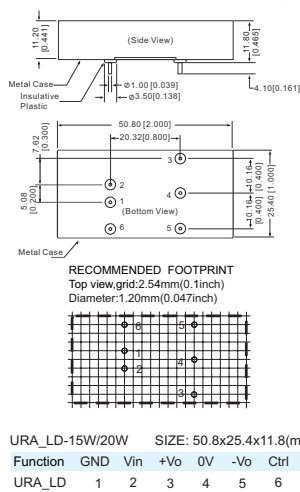
RoHS

### FEATURES

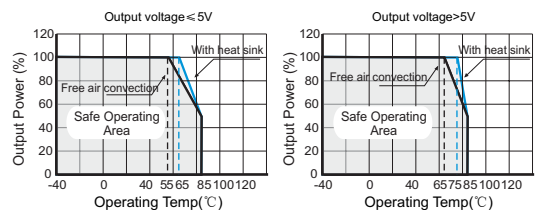
- Operating Temperature: -40°C ~ +85°C
- Ultra Wide(4:1) Input Range
- 1500VDC Input/Output Isolation
- EMC application
- Remote ON/OFF
- Under voltage lockout, over voltage protection
- Short Circuit Protection(automatic recovery)
- Six-sided Metal Shielding Package
- Internal SMD construction

### SPECIFICATIONS

Output voltage accuracy.....	± 1% (typ)
Line regulation: Input voltage from low to high.....	± 0.2% (typ)
Load regulation: From 10% to 100% load.....	± 0.5% (typ)
Temperature drift : Refer to recommended circuit.....	± 0.02%/°C (typ)
Ripple & Noise: 20MHz Bandwidth.....	100mVp-p (max)
Conduction: Refer to recommended circuit.....	EN55022/CLASS B
Radiation: Refer to recommended circuit.....	EN55022/CLASS B
Switching frequency: Nominal, full load.....	400KHz (typ)
Storage temperature.....	-55°C ~ +125°C
Isolation resistance.....	1000MΩ (min)
MTBF.....	1,000,000 hours (min)
Cooling.....	Free air convection



### TYPICAL TEMPERATURE CURVE



#### URA\_LD-15W

Part Number	Vin (VDC)	Input Range (VDC)	Vout (VDC)	Iout (mA)	Eff(TYP) %
URA2405LD-15W	24	9-36	±5	±1500	86
URA2412LD-15W			±12	±625	87
URA2415LD-15W			±15	±500	87
URA4805LD-15W	48	18-75	±5	±1500	84
URA4812LD-15W			±12	±625	87
URA4815LD-15W			±15	±500	88

#### URA\_LD-20W

Part Number	Vin (VDC)	Input Range (VDC)	Vout (VDC)	Iout (mA)	Eff(TYP) %
URA2405LD-20W	24	9-36	±5	±2000	84
URA2412LD-20W			±12	±833	87
URA2415LD-20W			±15	±667	87
URA4805LD-20W	48	18-75	±5	±2000	85
URA4812LD-20W			±12	±833	87
URA4815LD-20W			±15	±667	87

Note: 1. Size of product with Heat-sink: 50.8\*31\*23mm;  
2. If use heat-sink, make sure there is enough space;  
3. Add suffix II for heat-sink mounted, for example URA2405LD-15WH.



# Ultra-Wide Input Isolated, Regulated Series



## URB\_LD-15W & URB\_LD-20W Series

RoHS

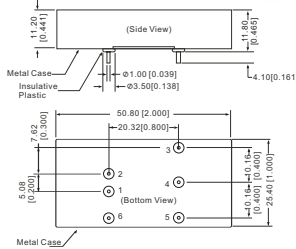
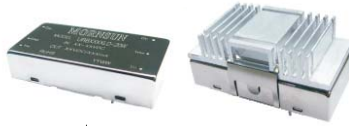
### ULTRA-WIDE INPUT, ISOLATED & REGULATED SINGLE OUTPUT DC-DC CONVERTER

#### FEATURES

- Operating Temperature: -40°C ~ +85°C
- Ultra Wide(4:1) Input Range
- 1500VDC Input/Output Isolation
- Remote ON/OFF
- Under voltage lockout, over voltage protection
- Short Circuit Protection(automatic recovery)
- Six-sided Metal Shielding Package
- Internal SMD construction

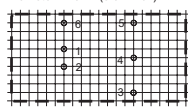
#### SPECIFICATIONS

Output voltage accuracy.....	± 1% (typ)
Line regulation: Input voltage from low to high.....	± 0.2% (typ)
Load regulation: From 10% to 100% load.....	± 0.5% (typ)
Temperature drift: Refer to recommended circuit.....	± 0.02%/°C (typ)
Ripple & Noise: 20MHz Bandwidth.....	150mVp-p(max)
Switching frequency: Nominal, full load.....	15W: 300KHz(typ) 20W: 400KHz(typ)
Storage temperature.....	-55°C ~ +125°C
Isolation resistance.....	1000MΩ (min)
MTBF.....	1,000,000 hours(min)
Cooling.....	Free air convection



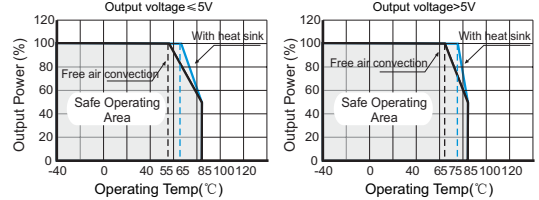
#### RECOMMENDED FOOTPRINT

Top view, grid: 2.54mm(0.1inch)  
Diameter: 1.20mm(0.047inch)



Function	GND	Vin	+Vo	Trim	0V	Ctrl
URB_LD-15W/20W	1	2	3	4	5	6

#### TYPICAL TEMPERATURE CURVE



#### URB\_LD-15W

Part Number	Vin (VDC)	Input Range (VDC)	Vout (VDC)	Iout (mA)	Eff(TYP) %
URB2403LD-15W	24	9-36	3.3	4000	80
URB2405LD-15W			5	3000	82
URB2412LD-15W			12	1250	85
URB2415LD-15W	48	18-75	15	1000	85
URB4803LD-15W			3.3	4000	81
URB4805LD-15W			5	3000	83
URB4812LD-15W			12	1250	85
URB4815LD-15W	15	1000	85		

#### URB\_LD-20W

Part Number	Vin (VDC)	Input Range (VDC)	Vout (VDC)	Iout (mA)	Eff(TYP) %
URB2403LD-20W	24	9-36	3.3	5000	83
URB2405LD-20W			5	4000	86
URB2412LD-20W			12	1667	87
URB2415LD-20W	48	18-75	15	1333	88
URB4803LD-20W			3.3	5000	83
URB4805LD-20W			5	4000	87
URB4812LD-20W			12	1667	88
URB4815LD-20W	15	1333	88		

1. Size of product with Heat-sink: 50.8\*31\*23mm;
2. If use heat-sink, make sure there is enough space;
3. Add suffix "H" for heat-sink mounted, for example URB2405LD-15WH.

## URA\_D-30W Series

RoHS

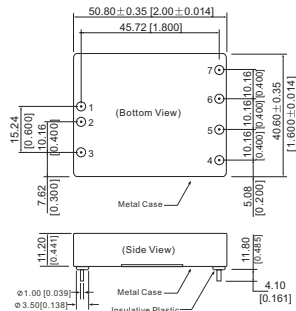
### ULTRA-WIDE INPUT, ISOLATED & REGULATED DUAL OUTPUT DC-DC CONVERTER

#### FEATURES

- Operating Temperature: -40°C ~ +85°C
- Ultra Wide(4:1) Input Range
- 1500VDC Input/Output Isolation
- EMC application
- Remote ON/OFF
- Under voltage lockout, over voltage protection
- Short Circuit Protection(automatic recovery)
- Six-sided Metal Shielding Package
- Internal SMD construction

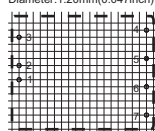
#### SPECIFICATIONS

Output voltage accuracy.....	± 1% (typ)
Line regulation: Input voltage from low to high.....	± 0.2% (typ)
Load regulation: From 10% to 100% load.....	± 0.5% (typ)
Temperature drift: Refer to recommended circuit.....	± 0.02%/°C (typ)
Ripple & Noise: 20MHz Bandwidth.....	100mVp-p(max)
Conduction: Refer to recommended circuit.....	EN55022/CLASS B
Radiation: Refer to recommended circuit.....	EN55022/CLASS B
Switching frequency: Nominal, full load.....	400KHz(typ)
Storage temperature.....	-55°C ~ +125°C
Isolation resistance.....	1000MΩ (min)
MTBF.....	1,000,000 hours(min)
Cooling.....	Free air convection

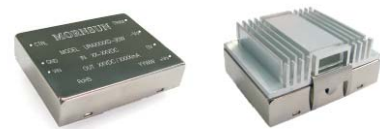


#### RECOMMENDED FOOTPRINT

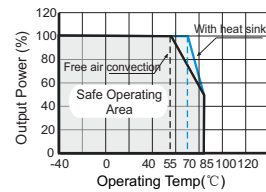
Top view, grid: 2.54mm(0.1inch)  
Diameter: 1.20mm(0.047inch)



Function	Vin	GND	CTRL	Trim	-Vo	0V	+Vo
URA_D-30W	1	2	3	4	5	6	7



#### TYPICAL TEMPERATURE CURVE



Part Number	Vin (VDC)	Input Range (VDC)	Vout (VDC)	Iout (mA)	Eff(TYP) %
* URA2405D-30W	24	9-36	±5	±3000	82
* URA2412D-30W			±12	±1250	86
* URA2415D-30W			±15	±1000	86
* URA4805D-30W	48	18-75	±5	±3000	82
* URA4812D-30W			±12	±1250	86
* URA4815D-30W			±15	±1000	86

1. Size of product with Heat-sink: 50.8\*46.2\*31mm;
2. If use heat-sink, make sure there is enough space;
3. Add suffix "H" for heat-sink mounted, for example URA2405D-30WH.
4. \* Designing.

AC-DC SERIES

DC-DC FIXED INPUT ISOLATED/UNREGULATED

DC-DC FIXED INPUT ISOLATED/REGULATED

DC-DC WIDE INPUT ISOLATED/REGULATED

DC-DC ULTRA-WIDE INPUT ISOLATED/REGULATED

DC-DC WIDE INPUT NON-ISOLATED/REGULATED

LED DRIVER

IGBT DRIVER

ISOLATION AMPLIFIER MODULE