

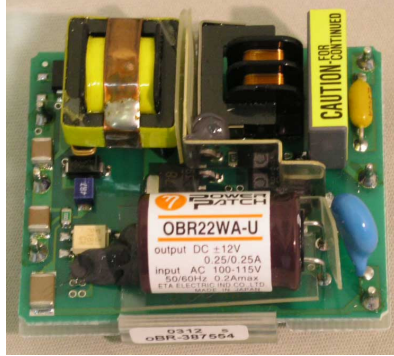


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HIGH QUALITY SWITCHING POWER SUPPLIES

AC/DC SWITCHING POWER SUPPLY
INPUT: 85~132VAC
DUAL OUTPUT
6 WATTS

OBRxWA SERIES

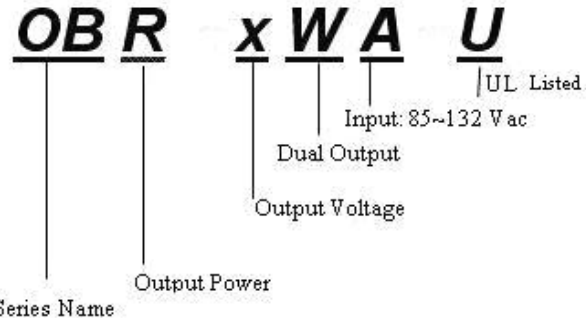


Dimension: 43Wx47.5Lx18.5H [mm]



General Description

OB-Series AC/DC Switching Power Supplies are designed and built to be installed right onto the user's printed circuit board like a piece of "patch-work". They are small, light in weight and cost effective.



Features

1. PCB Mountable
2. Small , Light Weight
3. High Efficiency
4. Cost effective
5. Output Voltage adjustable
6. Over Voltage Protection
7. EMI: complies to FCC/B
8. Safety: UL 1950, CSA 950(C-UL) approved

Input Characteristics		Models	
	Unit	OBR22WA-U	OBR23WA-U
Input Voltage	Vac	AC 115 V [DC 132 V]	
Input Voltage Range	Vdc	AC85~132V [DC110-175V]	
Input Current	A	0.2	
Input Frequency	Hz	50/60Hz	
Input Frequency Range	Hz	47-440Hz	
Inrush Current *1	A	18A (maximum) at AC100V	
Efficiency (typical) *2	%	78	79

Output Characteristics		OBR22WA-U		OBR23WA-U	
	Unit	+12	-12	+15	-15
Output Voltage	Vdc				
Output Current	A	0.25		0.2	
Voltage Tolerance	V	±0.24		±0.3	
Ripple and Noise(max.) *3	mV	100mVp-p MAX			
Regulation					
a. Static Line Regulation max.	mV	60		75	
b. Static Load Regulation max.	mV	±1.2*4, ±480*5, ±60*6		±1.5*4, ±600*5, ±75*6	
c. Temperature Coefficient *7	%/°C	≤0.03%/°C			
d. Drift max. *8	mV	75		90	
e. Dynamic Load Reg. typ.*9	mV	±480		±600	
f. Recovery Time *9	mS	20ms (Typ.)			
g. Rise Time	mS	100mS (maximum) at rated input/output			
h. Hold Up Time	mS	20mS (typical) at rated input/output			



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Environmental Specification	
Operating Temperature	-20~+71°C
Operating Humidity	30~85%RH(non-condensing)
Storage Temperature	-20 to +85°C
Storage Humidity	20~90%RH(non-condensing)
Withstanding Voltage	Primary-Secondary AC2,000V for 1minute Primary-Frame Ground AC2,000V for 1minute Secondary-Frame Ground AC500V for 1minute
Vibration	5-10Hz:10mm double amplitude,10-55Hz:19.6m/s ² ,20minutes' period for 60minutes each along X,Y,Z axes(non-operating)
Shock	294m/s ²
Cooling	Convection
Isolation Resistance	Primary-Secondary-Frame Ground 50MΩ(minimum) by DC500V insulation tester
Environmental Agencies	
EMI(Electromagnetic Interference)	Built to meet FCC Part15-B Class B Built to meet VCCI Class A
Safety	UL: UL1950, C-UL: CSA C22.2 No.950
Function/Protection	
Over current Protection*10	Fold back/current limiting with automatic recovery at discontinuous short circuit conditions
Over voltage Protection	Not Available
Other Specifications	
Leakage Current(typ.)	40uA at AC100V input
MTBF [H] *11	1,000,000
Mechanical Specification	
Dimension [mm]	43Wx47.5Lx18.5H [mm]
Weight (typical)	open board type:27g[unit with chassis/cover:30g]

Conditions:

- *1 cold start
- *2 at DC130V input and rated output
- *3 measured by a bayonet probe at the output connector at a 0 to 100MHz bandwidth
- *4 when output current changed from minimum rated current to rated current keeping the current of other output below minimum rated current
- *5 when output current changed from minimum rated current to rated current keeping the current of other output above minimum rated current
- *6 when output current of both outputs changed from 0mA to rated current identically
- *7 at -10 to +71°C
- *8 when output current of both outputs changed from 0mA to rated current identically only for 7hours from 1hour after switch-on at 25°C and rated input/output
- *9 when output current changed rapidly between 25% and 75% of rated current at AC100V input
- *10 satisfy the above-mentioned specifications only for less than 1minute of over current and short circuit
- *11 may vary on input voltage and load conditions

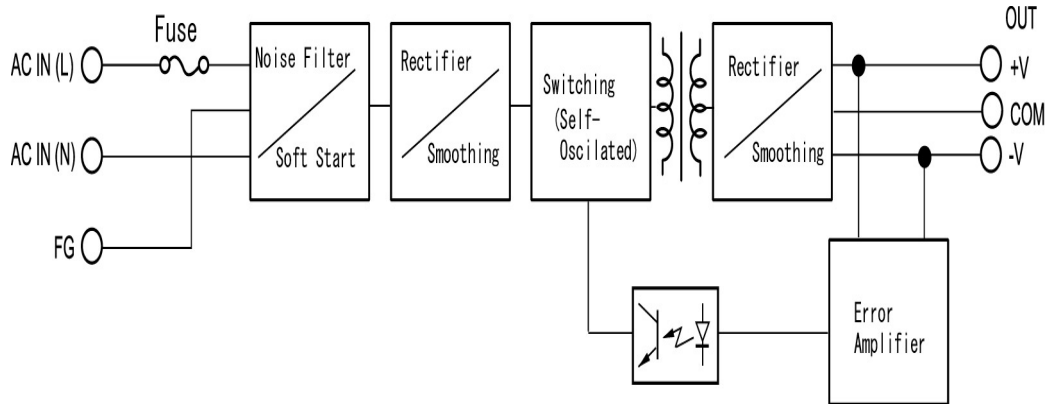




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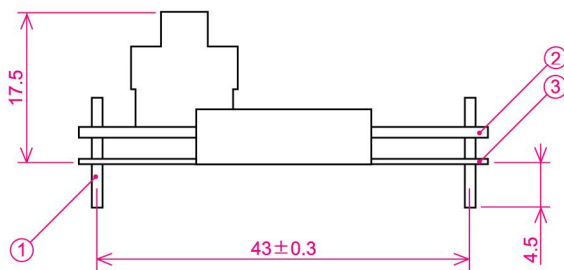
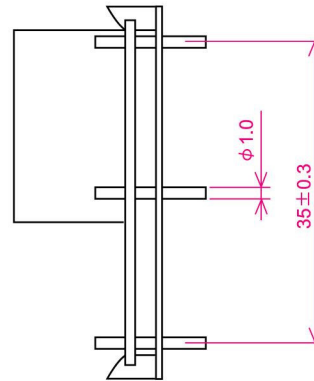
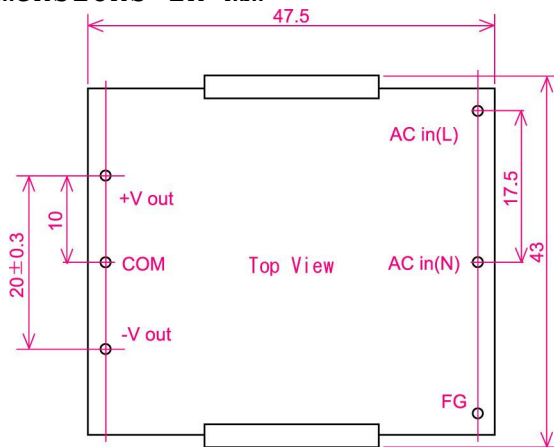
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BLOCK DIAGRAM



DIMENSION DIAGRAM

** Dimensions in mm



- ① 1.0DIA PIN Material:BsB 2700 1/2H
Copper Plating 1~3μm
Solder Plating 3~8μm
 - ② Double-sided PCB FR4t=1.0
 - ③ Insulator UL94V2
- * Tolerance ±0.5



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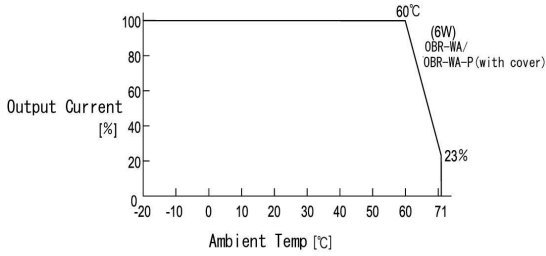
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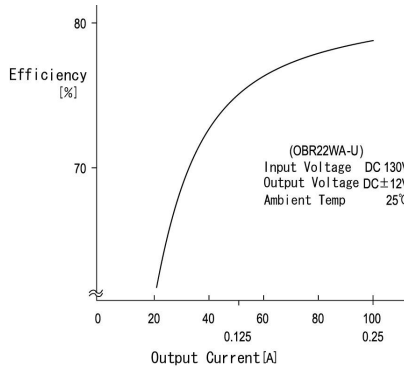
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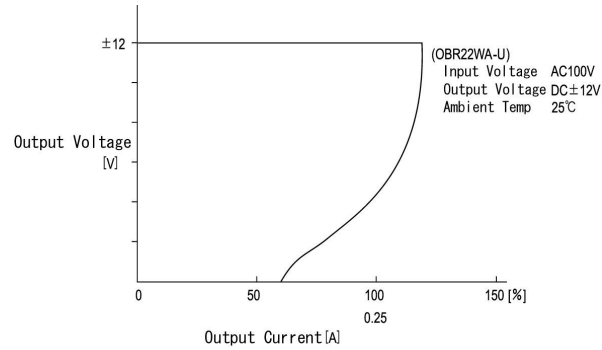
DERATING CURVE



EFFICIENCY CURVE



OCP CURVES



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- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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