



OBR-WA

6W Open Frame



FEATURES:

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.

- PCB Mountable
- Small, Light Weight
- High Efficiency
- Cost effective
- Output Voltage adjustable
- Over Voltage Protection
- EMI: complies to FCC/B
- Safety: UL 1950, CSA 950(C-UL) approved



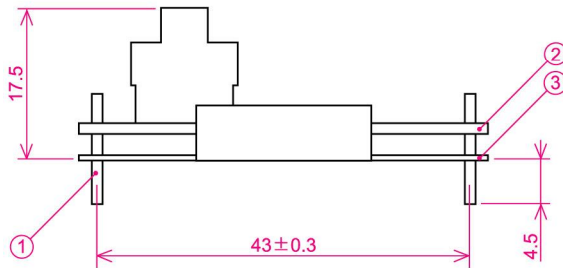
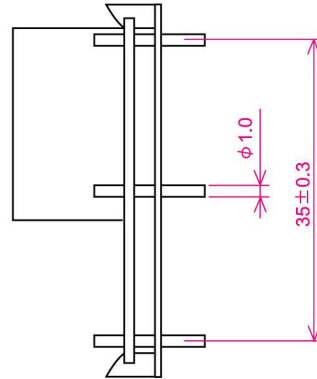
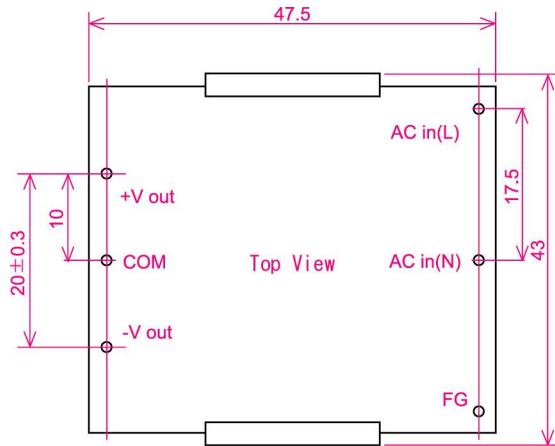
MODEL/CHANNEL		Unit	OBR3.3 SA-U	OBR05 SA-U	OBR12 SA-U	OBR15 SA-U	OBR24 SA-U	OBR48 SA-U
OUTPUT	Output Voltage	Vdc	3.3	5	12	15	24	48
	Output Current	A	1	1	0.5	0.4	0.26	0.13
	Voltage Tolerance	V	0.07	0.1	0.24	0.3	0.48	0.96
	Ripple and Noise(max.) *3	mV	100mVp-p MAX					
	Regulation							
	a. Static Line Regulation max.	mV	5	10	24	30	48	96
	b. Static Load Regulation max.	mV	10	15	36	45	72	144
	c. Temperature Coefficient *7	mV	0.03%/°C					
	Drift max. *8	mV	30	40	75	90	135	255
	Dynamic Load Reg. typ.*9	mV	200	250	360	450	720	1500
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						
INPUT	Input Voltage	Vac	AC 115 V[DC 132 V]					
	Input Voltage Range	Vdc	AC85~132V [DC110-175V]					
	Input Current	A	0.25					
	Input Frequency	Hz	50/60Hz					
	Input Frequency Range	Hz	47-440Hz					
	Inrush Current *1	A	18A(maximum) at AC100V					
	Efficiency (typical) *2	[mA]	68	75	78	79	81	81
Protection	Short circuit protection	[V]	Fold back/current limiting with automatic recovery at discontinuous short circuit conditions					
	Over Voltage Protection	[A]	Not Available					
Environmental Agencies	EMI(Electromagnetic Interference)	-	Built to meet FCC Part15-B Class B					
	EMC Standards	-	UL 1950	C-UL: CSA 22.2	Built to meet VCCI Class A			
Environment	Operating Temperature	-	-20~+71°C					
	Operating Humidity	-	30~85%RH(non-condensing)					
	Shock	-	294m/s^2					
	Cooling	-	Convection					
Dimension	Size(WxHxD) / Weight	mm/g	D43Wx47.5Lx18.5H [mm]/ open board type:27g[unit with chassis/cover:30g]					





Dimension Diagram (mm)

6W Open Frame



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





Model Diagram

	MODEL/CHANNEL	Unit	OBR22WA-U	OBR23WA-U
Environment	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)	
	Isolation Resistance	-	Primary-Secondary-Frame Ground 50MΩ(minimum) by DC500V insulation tester	
Other Spec.	Leakage Current(typ.)	-	40uA at AC100V input	
	MTBF [H] *9	-	1,000,000	

Block Diagram

