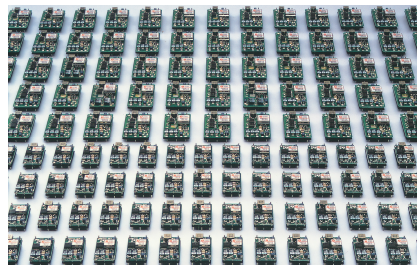




## OBR-SC/WC

## 6W Open Frame



### FEATURES

- 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
- **Isolated Power Supply**



MODEL/CHANNEL		Unit	OBR05SC	OBR12SC	OBR15SC	OBR24SC	OBR22WC	OBR23WC						
<b>OUTPUT</b>	Output Voltage	Vdc	5	12	15	24	±12	±15						
	Output Current	A	1	0.5	0.4	0.26	0.25	0.2						
	Line Regulation max.	mV	25	60	75	120	60	75						
	Load Regulation max.	mV	25	60	75	120	±1000	±1200						
	Dynamic Line	mV	200	360	450	720	480	600						
	Dynamic Load	mV	150	360	450	720	360	450						
	Voltage Tolerance	mV	100	240	300	480	240	300						
	Drift	mV	40	75	90	135	75	90						
	Ripple and Noise(max.)	mVp	100											
	Temperature Coefficient	-	0.03%/°C(maximum)											
	Recovery Time	mS	20mS(typical)											
	Rise Up Time	mS	20mS(typical) at rated input/output											
MODEL/CHANNEL		Unit	OBR05 SC0512	OBR12 SC0512	OBR15 SC0512	OBR24 SC0512	OBR22 WC0512	OBR23 WC0512						
<b>INPUT</b>	Input Voltage	Vac	5	12	5	12	5	12	5	12	5	12	5	12
	No Load	mA	50	51	68	60	75	62	88	67	106	93	116	98
	Full Load	mA	1351	578	1600	676	1548	654	1590	668	1642	697	1568	662
	Line Back Noise	mVp	300	150	300	150	300	150	300	150	300	150	300	150
	Efficiency (typical)	%	74	72	75	74	77	76	78	78	75	74	76	75
	Input Voltage Range	Vdc	4.5-16											





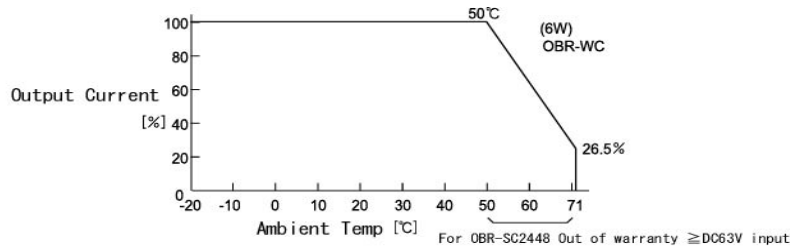
MODEL/CHANNEL		Unit	OBR05 SC1224		OBR12 SC1224		OBR15 SC1224		OBR24 SC1224		OBR22 WC1224		OBR23 WC1224	
<b>INPUT</b>	Input Voltage	Vac	12	24	12	24	12	24	12	24	12	24	12	24
	Input Leak Voltage	mA	28	30	28	33	28	35	33	34	38	38	38	38
	No Load	mA	520	270	602	312	595	308	611	313	617	312	609	308
	Rated Load	mVp	300	150	300	150	300	150	300	150	300	150	300	150
	Efficiency (typical)	%	80	77	83	80	84	81	85	83	81	80	82	81
	Input Voltage Range	Vdc	8-32											
MODEL/CHANNEL		Unit	OBR05 SC2448		OBR12 SC2448		OBR15 SC2448		OBR24 SC2448		OBR22 WC2448		OBR23 WC2448	
<b>INPUT</b>	Input Voltage	Vac	24	48	24	48	24	48	24	48	24	48	24	48
	Input Range No Load	mA	11	13	12	14	12	14	14	16	18	18	18	18
	Input Range Full Load	mA	267	137	305	154	297	153	306	155	308	156	304	154
	Line Back Noise	mVp	350	200	500	200	500	200	500	200	500	200	500	200
	Efficiency (typical)	%	78	76	82	81	84	82	85	84	81	80	82	81
	Input Voltage Range	Vdc	18-72											
<b>Environment</b>	Operating Temperature	°C	-20 to 71°C											
	(derating)	°C	3.5%/°C (50°C to 71°C)(out of warranty ≥71°C)											
	Operating Humidity	%	20-90%/RH(non-condensing)											
	Storage Temperature	°C	-20 to +85°C											
	Storage Humidity	-	20 to 90%/RH(non-condensing)											
	Withstanding Voltage	-	Primary-Secondary AC500V for 1 minute											
	Isolation Resistance	-	Primary-Secondary 50MΩ(minimum) by DC500V insulation tester											
	Shock	-	294m/s <sup>2</sup>											
	Cooling	-	Convection											
	Vibration	-	5-10Hz: 10mm double amplitude, 10-55Hz: 2G, 19.6m/s <sup>2</sup> , 20 minutes period for 60 minutes each along X,Y,Z axes (non-operating)											
<b>Function</b>	Capaticance	-	2200											
	Overcurrent Protection	-	Foldback/Current Limiting with automatic recovery at discontinuous short circuit conditions											
	Timing of Output Voltage	A	+250	+250	+350	+650								
			-250	-900	-1600	-4000								
<b>Dimension</b>	Size(WxHxD) / Weight	mm/g	30W×46L×10.4H open board type/12g											





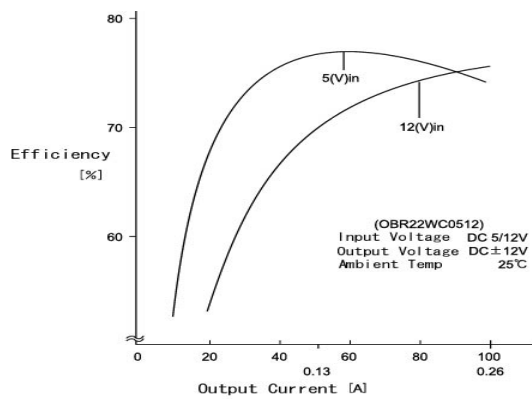
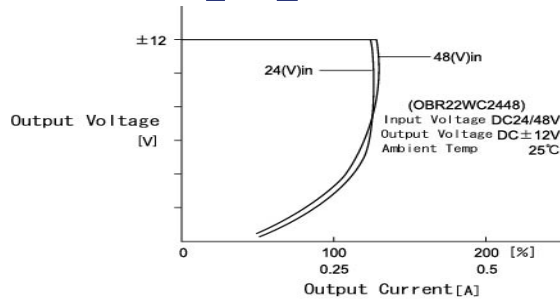
## Derating Diagram

## 6W Open Frame



## OCP Curve

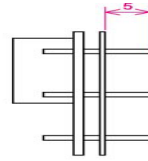
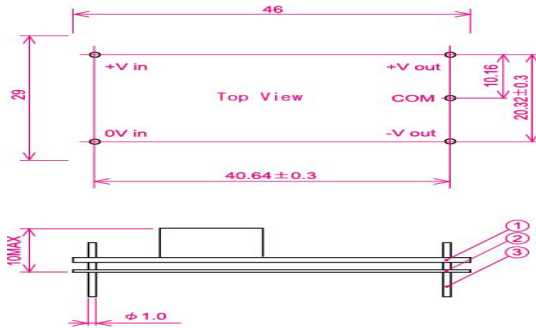
## 6W Open Frame





## Dimension Diagram (mm)

## 6W Open Frame



- ① Double-sided PCB FR4t=1.0
  - ② t=0.5 Insulator V0
  - ③ 1.0DIA PIN Material:BsB 2700 1/2H  
Copper Plating 1~3μm  
Solder Plating 3~6μm
- \* Tolerance ±0.5

