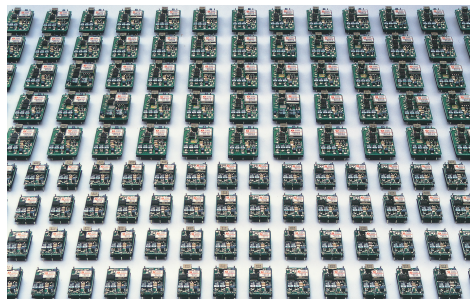




OBQ-SC/WC

3W Open Frame



FEATURES

- PCB Mountable
- Small, Light Weight
- High Efficiency
- Cost effective
- Output Voltage adjustable
- Over Voltage Protection
- **Isolated Power Supply**



MODEL/CHANNEL		Unit	OBQ05SC		OBQ12SC		OBQ15SC		OBQ24SC		OBQ22SC		OBQ23SC	
OUTPUT	Output Voltage	Vdc	5		12		15		24		±12		±15	
	Output Current	A	0.5		0.25		0.2		0.13		0.13		0.1	
	Line Regulation max.	mV	25		60		75		120		60		75	
	Load Regulation max.	mV	25		60		75		120		±1000		±1000	
	Dynamic Line	mV	250		200		200		200		200		200	
	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	10mS(typical) at rated input/output											
MODEL/CHANNEL		Unit	OBQ05 SC0512		OBQ12 SC0512		OBQ15 SC0512		OBQ24 SC0512		OBQ22 WC0512		OBQ23 WC0512	
INPUT	Input Voltage	Vac	5	12	5	12	5	12	5	12	5	12	5	12
	No Load	mA	41	44	51	54	51	53	57	59	66	64	64	64
	Full Load	mA	676	297	789	342	779	337	800	346	843	356	800	342
	Line Back Noise	mVp	200	100	100	80	200	100	200	100	200	100	200	100
	Efficiency (typical)	%	74	70	76	73	77	74	78	75	74	73	75	73
	Input Voltage Range	Vdc	4.5-16V											





MODEL/CHANNEL		Unit	OBQ05 SC1224		OBQ12 SC1224		OBQ15 SC1224		OBQ24 SC1224		OBQ22 WC1224		OBQ23 WC1224	
INPUT	Input Voltage	Vdc	12	24	12	24	12	24	12	24	12	24	12	24
	Input Range No Load	mA	22	24	28	29	28	29	30	30	35	31	32	29
	Input Range Full Load	mA	267	144	312	168	304	164	317	171	329	173	308	164
	Line Back Noise	mVp	300	150	300	150	300	150	300	150	1000	500	1000	500
	Efficiency (typical)	%	78	72	80	74	82	76	82	76	79	75	81	76
	Input Voltage Range	Vdc	8-32											
MODEL/CHANNEL		Unit	OBQ05 SC2448		OBQ12 SC2448		OBQ15 SC2448		OBQ24 SC2448		OBQ22 WC2448		OBQ23 WC2448	
INPUT	Input Voltage	Vdc	24	48	24	48	24	48	24	48	24	48	24	48
	Input Range No Load	mA	10	11	15	15	15	15	15	15	14	14	14	14
	Input Range Full Load	mA	136	72	154	82	152	81	158	84.4	160	86	152	75
	Line Back Noise	mVp	100	80	100	80	100	80	100	80	200	100	200	100
	Efficiency (typical)	%	76	72	81	76	82	77	82	77	81	76	82	76
	Input Voltage Range	Vdc	18-72V											
Environment	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 1minute											
	Isolation Voltage	-	Primary-Frame Ground 50MΩ(minimum) by DC500V insulation tester											
	Shock	-	294m/s^2											
	Cooling	-	Convection											
	Vibration	-	5-10Hz: 10mm double amplitude,10-55Hz: 19.6m/s^2, 20 minutes period for 60 minutes each along X,Y,Z axes(non-operating)											
Function	Trimming of Output	-	+250	+250	+350	+650								
		-250	-900	-1600	-4000									
	Overcurrent Protection	-	Foldback/Current Limiting with automatic recovery at discontinuous short circuit conditions											
	Input Fuse	-	Installed											
	Capacitance	pF	2200											
Dimension	Size(WxHxD) / Weight	mm/g	20.1Wx32Lx10.4H open board type/6g											



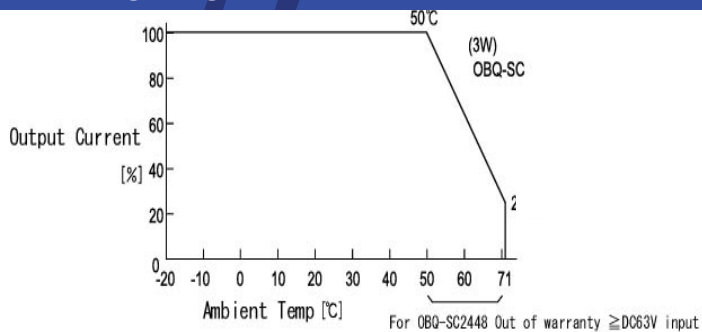


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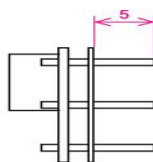
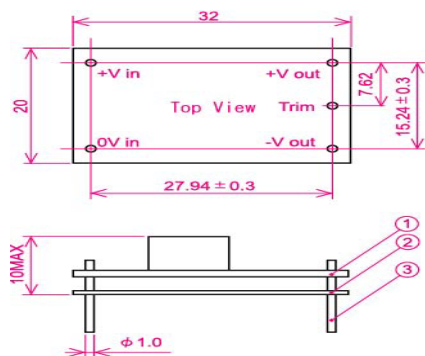
Derating Diagram

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Dimension Diagram (mm)

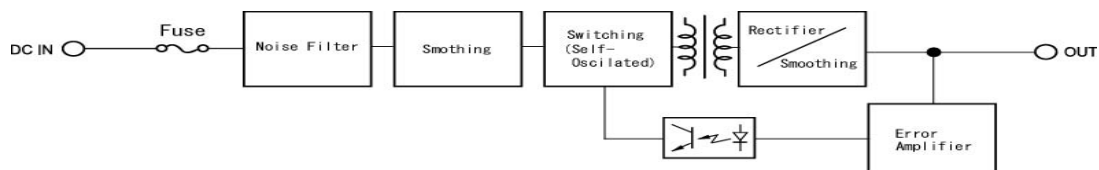
3W Open Frame



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

Block Diagram (mm)

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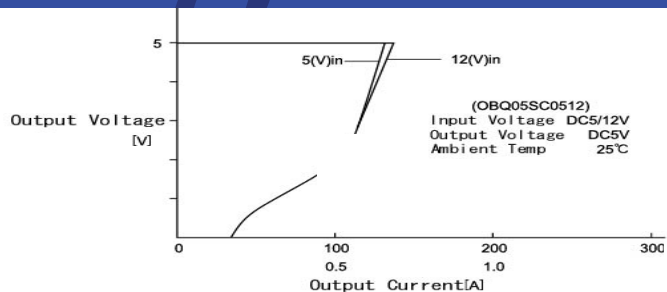
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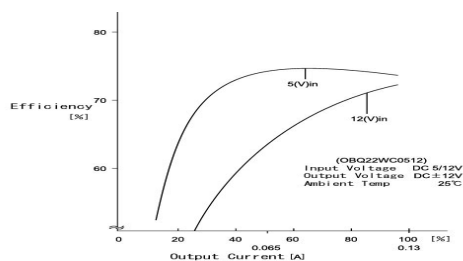
OCP Curves

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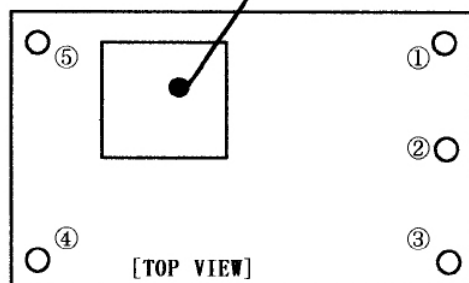


Efficiency Curve

3W Open Frame



■ OBQ-SC/WC



① : + [V]

② : COM

③ : 0 [V]

④ : DC 0 [V]

⑤ : DC + [V]



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