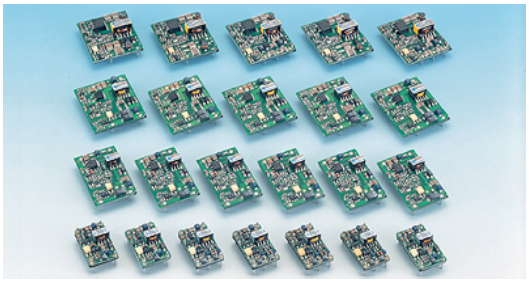
OEQ-SC/WC — 3W Open Frame



FEATURES
- Compatibility type of PIN in the power supply unit market
- Realized wide range input (Ultra wide input)
- **Isolated Power Supply**

RoHS

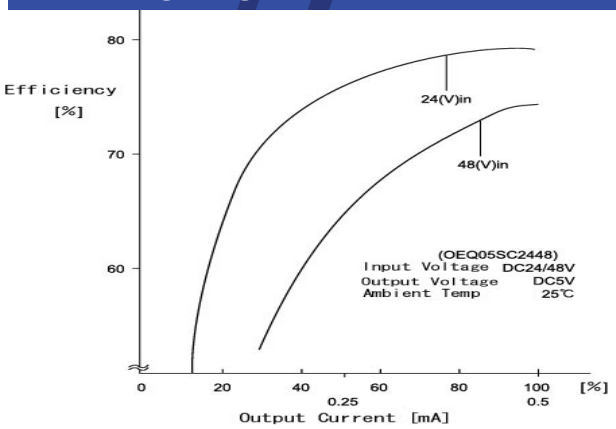
	MODEL/CHANNEL	Unit	OEQ05SC	OEQ12SC	OEQ15SC	OEQ24SC	OEQ22WC	OEQ23WC
OUTPUT	Output Voltage	Vdc	5	12	15	24	±12	±15
	Output Current	A	0.5	0.25	0.2	0.13	0.13	0.1
	Line Regulation max.	mV	25	60	75	120	60	75
	Load Regulation max.	mV	25	60	75	120	1200	600
	Dynamic Line	mV	200	480	600	960	480	1500
	Dynamic Load	mV	200	480	600	960	480	600
	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	OEQ05 SC0512		OEQ12 SC0512		OEQ15 SC0512		OEQ24 SC0512		OEQ22 WC0512		OEQ23 WC0512	
INPUT	Input Voltage	Vac	5	12	5	12	5	12	5	12	5	12	5	12
	No Load	mA	42	50	50	57	51	61	60	66	63	73	66	81
	Full Load	mA	680	299	805	347	795	344	815	350	860	365	822	352
	Line Back Noise	mVp	300	150	300	150	300	150	300	150	300	150	300	150
	Efficiency (typical)	%	72	69	74	72	75	72	76	74	72	71	73	71
	Input Voltage Range	Vdc	4.5-16											

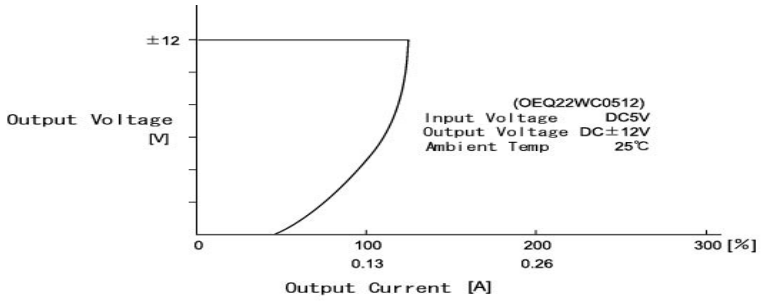
MODEL/CHANNEL		Unit	OEQ05 SC1224		OEQ12 SC1224		OEQ15 SC1224		OEQ24 SC1224		OEQ22 WC1224		OEQ23 WC1224	
INPUT	Input Voltage	Vac	12	24	12	24	12	24	12	24	12	24	12	24
	Input Leak Voltage	mA	24	25	29	30	30	31	34	34	38	35	40	37
	No Load	mA	271	147	320	171	311	168	325	173	341	182	324	173
	Rated Load	mVp	300	150	300	150	300	150	300	150	300	150	300	150
	Efficiency (typical)	%	76	70	72	72	80	74	80	75	76	71	77	72
	Input Voltage Range	Vdc	8-32											

MODEL/CHANNEL		Unit	OEQ05 SC2448		OEQ12 SC2448		OEQ15 SC2448		OEQ24 SC2448		OEQ22 WC2448		OEQ23 WC2448	
INPUT	Input Voltage	Vdc	24	48	24	48	24	48	24	48	24	48	24	48
	Input Range No Load	mA	11	11	15	15	16	16	18	18	19	19	20	19
	Input Range Full Load	mA	132	72	157	85	156	84	161	86	167	90	159	85
	Line Back Noise	mVp	200	100	200	100	200	100	200	100	200	100	200	100
	Efficiency (typical)	%	78	72	79	74	80	74	80	75	77	72	78	73
	Input Voltage Range	Vdc	18-72											
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 1 minute											
	Isolation Resistance	-	Primary-Secondary 50MW(minimum) by DC500V insulation tester											
	Shock	-	30G											
	Cooling	-	Convection											
	Vibration	-	5-10Hz: 10mm double amplitude,10-55Hz: 2G, 20 minutes period for 60 minutes each along X,Y,Z axes(non-operating)											
Function	Capaticance	-	2200											
	Overcurrent Protection	-	Current Limiting with automatic recovery at discontinuous short circuit conditions											
	Input Fuse	-	Installed											
	>=110% Rated Output Current	A	0.55		0.275		0.22		0.143		0.143		0.111	
Dimension	Size(WxHxD) / Weight	mm/g	21W×42.8L×11H open board type/7g											

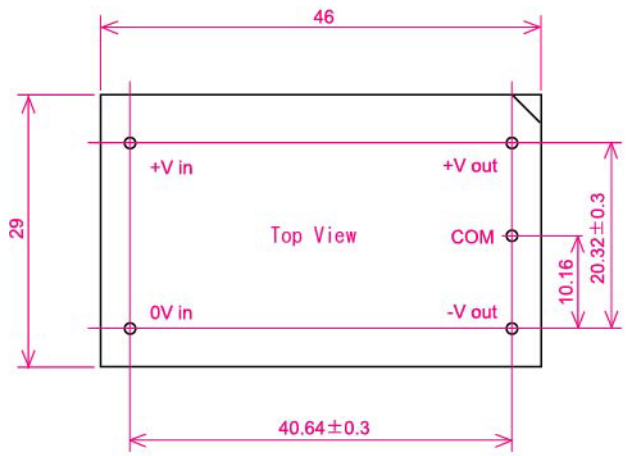
Derating Diagram — 3W Open Frame

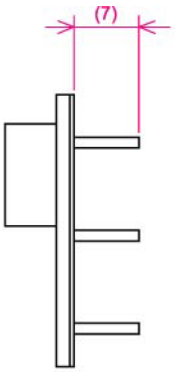


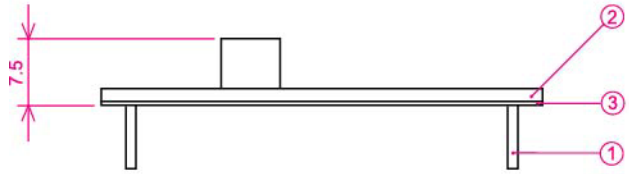
OCP Curve — 3W Open Frame



Dimension Diagram (mm) 3W Open Frame







①1.0DIA PIN Material:BsB 2700 1/2H

Copper Plating 1~3μm

Solder Plating 3~8μm

②Double-sided PCB FR4t=1.0

③ t=0.5 Insulator V0

＊Tolerance ±0.5