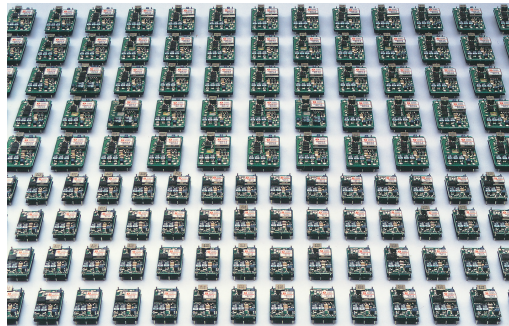




OBS-SC/WC

10W Open Frame



FEATURES:

In response to market demand for "DISTRIBUTED POWER," ETA has developed a new DC/DC converter suitable for PCB mounting. 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
- Isolated Power Supply



MODEL/CHANNEL		Unit	OBS05SC	OBS12SC	OBS15SC	OBS24SC	OBS22WC	OBS23WC						
OUTPUT	Output Voltage	Vdc	5	12	15	24	±12	±15						
	Output Current	A	2	0.9	0.7	0.45	0.45	0.35						
	Voltage Tolerance	mV	100	240	300	480	240	300						
	Static Line Regulation max.	mV	25	60	75	120	60	75						
	Static Load Regulation max.	mV	25	60	75	120	±1500	±1500						
	Drift max.	mV	40	75	90	135	75	90						
	Dynamic Line Regulation	mV	100	100	100	200	300	300						
	Dynamic Load Regulation	mV	200	400	300	500	300	300						
	Recovery Time	mS	10mS(typical)											
	Temperature Coefficient	mV	0.03%/°C(maximum)											
	Ripple and Noise	mVp	100											
Rise Time	mS	10mS(typical) at rated input/output												
MODEL/CHANNEL		Unit	OBS05SC12	OBS12SC12	OBS15SC12	OBS24SC12	OBS22WC12	OBS23WC12						
INPUT	Input Range Full Load	mA	1042	1097	1040	1046	1097	1041						
	Input Range No Load	mA	32	37	39	42	44	47						
	Efficiency (typical) *2	%	80	82	84	86	82	84						
	Input Voltage	Vac	12											
	Input Voltage Range	Vdc	8-18											
	Line Back Noise	Hz	500											
MODEL/CHANNEL		Unit	OBS05SC2448	OBS12SC2448	OBS15SC2448	OBS24SC2448	OBS22WC2448	OBS23WC2448						
INPUT	Input Voltage	Vac	24	48	24	48	24	48	24	48				
	Input Range No Load	mA	16	18	14	17	14	17	18	22	19	23		
	Input Range Full Load	mA	520	262	542	274	520	263	523	268	542	277	520	263
	Line Back Noise	Hz	500	300	500	300	500	300	500	300	500	200	500	200
	Efficiency (typical) *2	%	80	79	83	82	86	83	86	84	83	81	84	83
	Input Voltage Range	Vdc	18-72											
Protection	Trimming of Output	V	+250		+250		+350		+650					
		-250		-900		-1600		-4000						
	Overcurrent Protection	A	Foldback/Current Limiting with automatic recovery at discontinuous short circuit conditions											



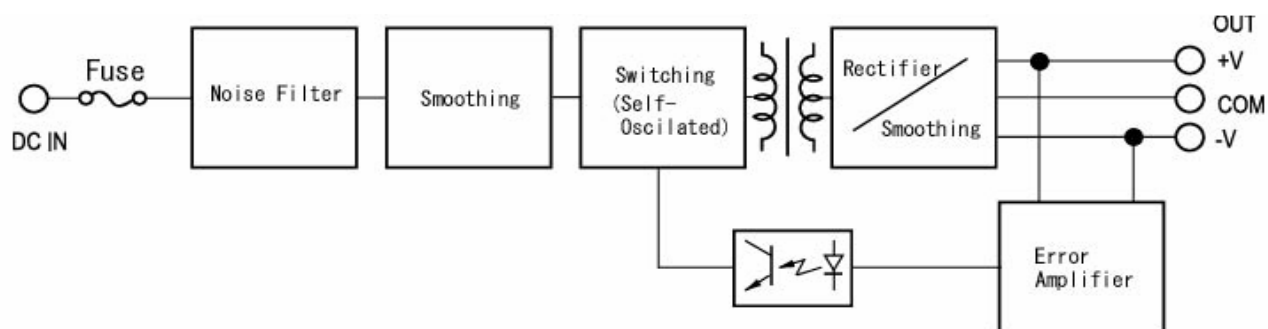


ETA-USA

The Power Professionals

	MODEL/CHANNEL	Unit	
Environment	Derating	-	3.5%/°C (50°C to 71°C) (out of warranty $\geq$ 71°C)
	Operating Temperature	°C	-20 to 71°C
	Operating Humidity	%	20-90%/RH(non-condensing)
	Shock	-	294m/s ²
	Cooling	-	Convection
	Input Fuse	-	Installed
	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 50M Ω (minimum) by DC500V insulation tester
	Capacitance	-	4400
	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)
Dimension	Size(WxHxD) / Weight	mm/g	39.1Wx46Lx16.5H open board type/14g

Model Diagram



ETA-USA

16170 Vineyard Blvd. Suite 180 Morgan Hill, CA 95037 <http://www.eta-usa.com>
Toll-free (US only): 800-ETA-POWR (800-382-7697) Telephone: 408 778-2793 FAX: 408-779-2753

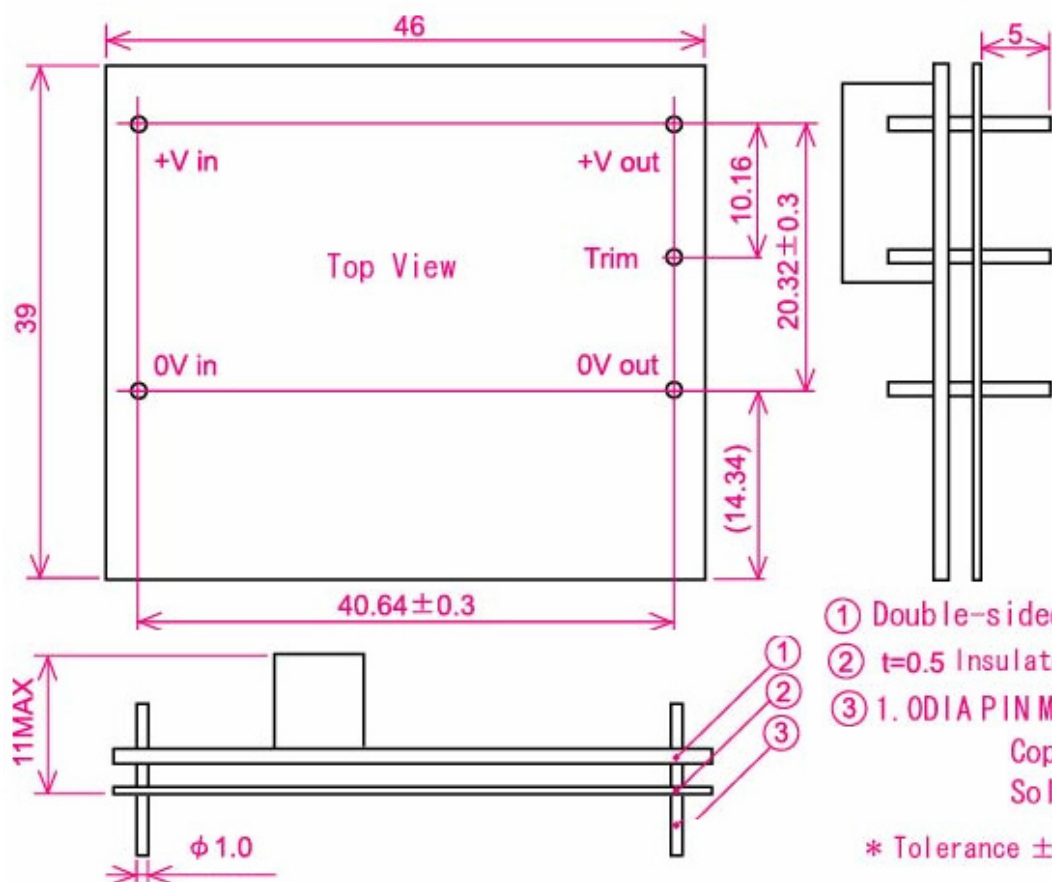


ETA-USA

The Power Professionals

Dimension Diagram (mm)

10W Open Frame



ETA-USA

16170 Vineyard Blvd. Suite 180 Morgan Hill, CA 95037 <http://www.eta-usa.com>
Toll-free (US only): 800-ETA-POWR (800-382-7697) Telephone: 408 778-2793 FAX: 408-779-2753

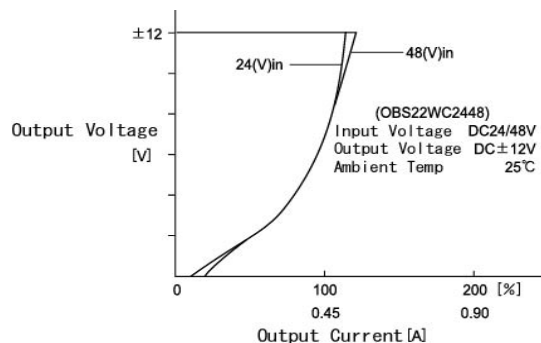


ETA-USA

The Power Professionals

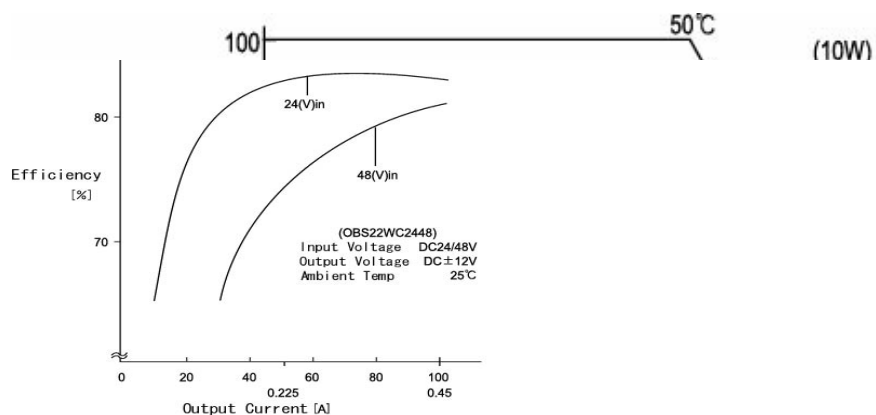
OCP Curve

10W Open Frame



Derating Curve

10W Open Frame



Input Voltage $\geq$ DC63V input

Curve OBS22WC2448

Efficiency Curve OBS22WC2448



ETA-USA

16170 Vineyard Blvd. Suite 180 Morgan Hill, CA 95037 <http://www.eta-usa.com>
Toll-free (US only): 800-ETA-POWR (800-382-7697) Telephone: 408 778-2793 FAX: 408-779-2753

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[ETA-USA:](#)

[OBS23WC12](#) [OBS05SC2448](#) [OBS24SC2448](#) [OBS05SC12](#) [OBS22WC12](#) [OBS24SC12](#) [OBS15SC12](#)
[OBS12SC2448](#) [OBS15SC2448](#) [OBS12SC12](#)