

# Ac-Dc Single Output Voltage External Power Supply Test Report

**Manufacturer Name** *Power Integrations*  
**Model** *EP16F*  
**Product Powered (if known)** *(Evaluation Charger)*  
  
**Country of Manufacturer** *Korea*  
**Integral Input Power Switch** *Not Present*  
**Dc Output Cord Length (cm)** *175*



Nameplate Specifications	Input	Output
Voltage (V)	85-265	6
Current (mA)		500
Power (W)		2.8
Frequency (Hz)	50/60	

## Lab Information

**Test Laboratory** Ecos Consulting  
**Street Address** 801 Florida Rd.  
 Suite 11  
**City** Durango  
**State/Province** CO  
**Postal Code** 81301-  
**Country** U.S.A.  
  
**Date Measured** 3/30/2004  
**Ambient Temp. °C** 24

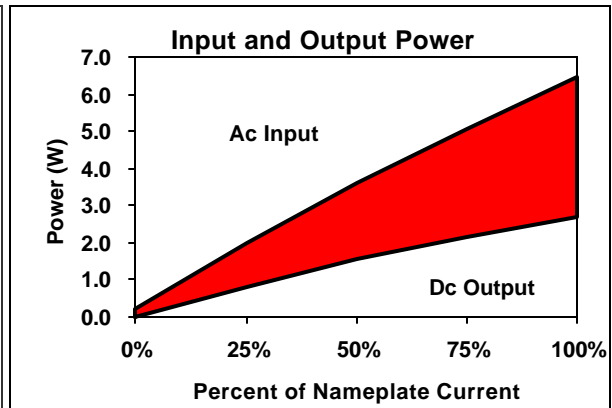
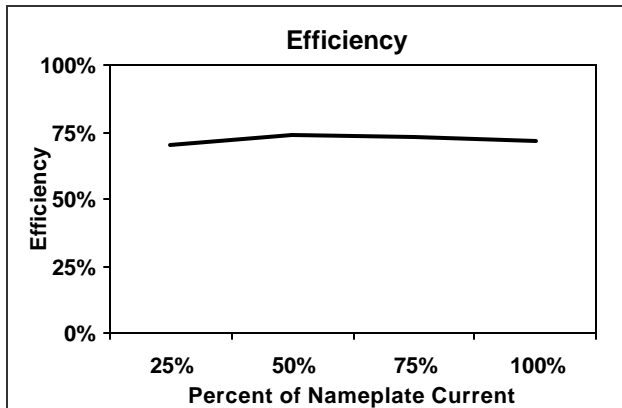
## Meter Information

Make/Model	Measurement	Calibration Date
Yokagawa	No Load	5/ 6/2003
Voltec PM300	Active Output an	8/ 1/2003

## Technician(s)

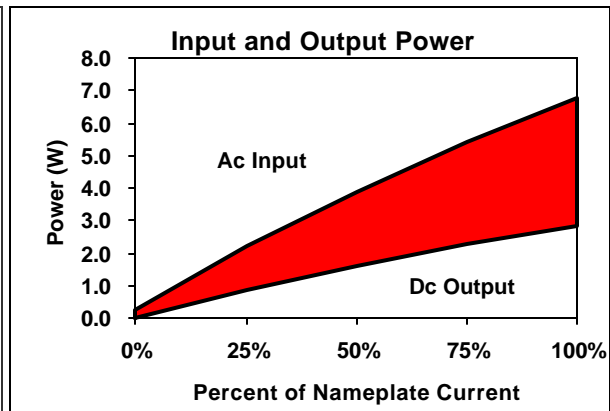
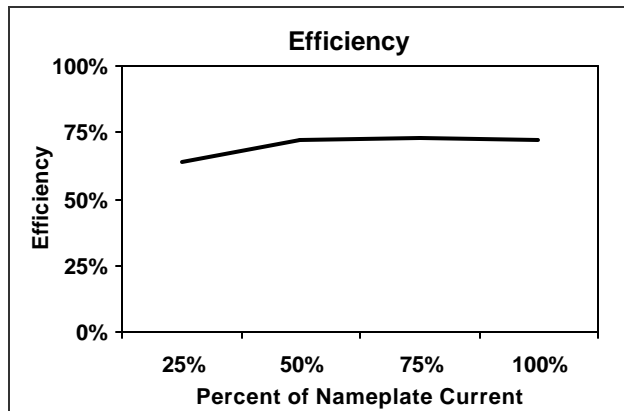
Name	Email
Travis Reeder	treeder@ecosconsulting.com
Eric McClusky	emcllusky@ecosconsulting.com

## Measured and Calculated Data at 115 V 60 Hz



	No Load	Active Power Values				
Percent of Nameplate Current	0%	25%	50%	75%	100%	Average
Dc Output Current (mA)		125	250	374	507	
Dc Output Voltage (V)		6.6	6.2	5.7	6.6	
Dc Output Power (W)		0.83	1.54	2.14	2.7	
Ac Input Voltage (V)	115	115	115	115	115	
Ac Input Power (W)	0.21	1.18	2.09	2.94	3.75	
Total Harmonic Distortion (THD)		213.6%	191.7%	172.7%	160.8%	184.7%
True Power Factor (W/VA)		0.41	0.46	0.49	0.51	0.47
Ac Input Frequency	60	60	60	60	60	60
Power Consumed by UUT (W)	0.21	0.35	0.55	0.80	1.05	
Efficiency		70.3%	73.7%	72.8%	72.0%	72.2%

### Measured and Calculated Data at 230 V 50 Hz



	No Load	Active Power Values				
Percent of Nameplate Current	0%	25%	50%	75%	100%	Average
Dc Output Current (mA)		125	250	374	500	
Dc Output Voltage (V)		6.9	6.5	6	5.7	
Dc Output Power (W)		0.86	1.62	2.27	2.83	
Ac Input Voltage (V)	230	230	230	230	230	
Ac Input Power (W)	0.25	1.35	2.25	3.12	3.91	
Total Harmonic Distortion (THD)		271.0%	256.2%	246.6%	233.1%	251.7%
True Power Factor (W/VA)		0.35	0.36	0.37	0.39	0.37
Ac Input Frequency	50	50	50	50	50	50
Power Consumed by UUT (W)	0.25	0.49	0.63	0.85	1.08	
Efficiency		63.7%	72.0%	72.8%	72.4%	70.2%