

# P R B X

POWERBOX Industrial Line  
OFI700A Series  
700W Single Output  
AC/DC Baseplate Power Supply

OFI700A – a powerful baseplate cooling power supply for demanding applications. The design of transfer heat to the baseplate makes it suitable for none ventilated applications as in sealed enclosures. A product that is suitable for wide application areas in industrial and others. Ruggedized construction makes it ideal for harsh environmental applications.

## Features

Conductive cooling
Output active ORing (optional)
Redundancy operation
Vibration/shock according MIL-STD-810H
Cover (optional)
Low EMI
DC-OK
Remote sense
Remone On/Off
OCP, OVP, OTP, SCP
AUX voltage 12Vdc

## Input

Input voltage range	85-264VAC
Nominal input voltage	100-240VAC
Input voltage <sup>1)</sup>	120-350VDC
Input frequency	47-63Hz
Protection class	I (with ground)
Power factor	0.95/0.92 (110VAC/230VAC)
Inrush current	30A
Input current	8.2A@110VAC, 3.9A@230VAC
Hold up time	20ms
Input fuse	Yes
Turn on time	typ. 600ms (remote on 500ms)
Leakage current	<0.75mA at 264VAC/60Hz

## Output

Output voltage	See table
Output current	See table
Output power	See table
Output peak power	N/A
Minimum load	0A
Line regulation	0.5% mV max
Load regulation	0.5% mV max. 10-90% load change
Temp. coefficient	± 0.02%/°C
Ripple & noise	1% (2% below 0°C)
Output voltage adj.	potentiometer, see table



## Environmental

Operating temperature	-40°C to +95°C
Baseplate assembly	
Derating	Determined by measuring point temperature
Operating humidity	20-95%RH (Non condensing)
Altitude operation	max. 3000m
Storage temperature	-40°C to +95°C
Storage humidity	20-95%RH (Non condensing)
Vibration	MIL-STD-810H, Cat. 4 Fig. 514.8C-3
Shock	MIL-STD-810H, Procedure 1, 20G 11ms, Ground material

## Mechanical

Size WxHxD	With cover option: 126x40x250mm Without cover: 126x38x250mm
IP class	IPX0
Weight	0.95kg (1.1kg with cover)
Connectors	Input: Phoenix GMKDS 1,5/ 3-7,62 (1717732) Output: Studs/M6 Screw Signals: Molex 818311041
Connector placement	Input and Output on each side

## General

MTBF	See separate calculation in manual
Life time expectations	See separate calculation in manual

Model Number	Output Voltage	Output Current	Output Voltage adj.	Efficiency 110VAC/230VAC
OFI700A12	12VDC	58.4A	9.6-14.4VDC	82% / 85.5%
OFI700A28	28VDC	25A	22.4-33.6VDC	85% / 88.5%
OFI700A48	48VDC	14.6A	38.4-57.6VDC	86% / 89.5%

## Note

1. DC input is not UL certified. For DC input external fuse shall be used, see manual.

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**Protection Circuit and Others**

Over current protection	Yes, works over 105% of rating auto recovery
Type of current limit	Standard: Hiccup
Over voltage protection	Yes
Over temp. protection	Yes
Remote sensing	Yes
Remote ON/OFF	Yes
Output LED	Yes, green
Active ORing	Yes (optional)
AUX Voltage	12Vdc/0.1A (regulation 10-14Vdc)

**Control and Communication**

DC ok	Yes
IOG	Yes

**Isolation**

Input -Output, RC, AUX	3000VAC
Input-FG	2000VAC
Output, RC, AUX-FG	500VAC
Output - RC, AUX	100VAC

**Standards**

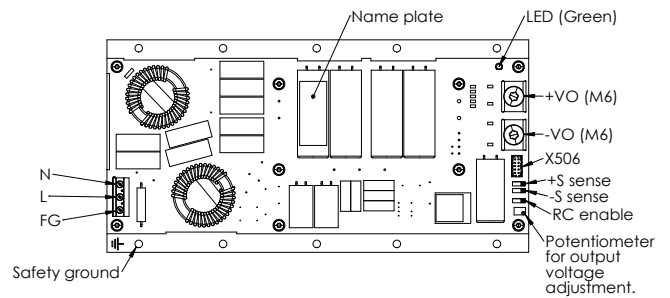
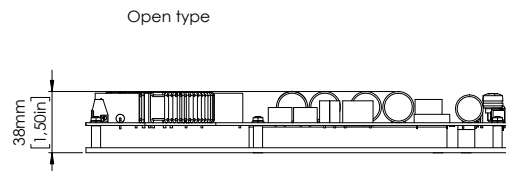
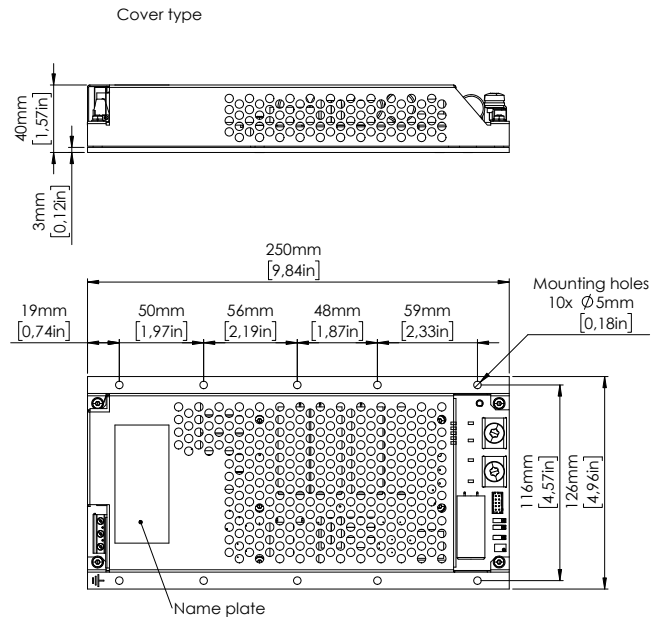
Safety standards	UL62368-1 approval pending CE, UKCA
RoHS	Yes, Directive 2011/65/EU (2015/863)

**EMC**

Harmonic attenuator	EN61000-3-2 class A
Flicker	EN61000-3-3
Conducted noise	EN55032 class B
Radiated noise	EN55032 class A, models with cover: Class B
EMS immunity	Compliance to EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-11

**Part numbers and options**

Series Name	Output Voltage	Cover Option
OFI700A 12	12: 12VDC	NO: No cover
	28: 28VDC	N: Cover
	48: 48VDC	O: ORing



Specifications are subject to change without notice.