

# FRA150/180

S E R I E S

## 120 ~ 180 Watts Single Output AC-DC Adaptor DeskTop Type for I.T.E.

### FEATURES

- ◆ Universal input, desktop style
- ◆ PF > 0.91 @230VAC, full load
- ◆ OVP, OLP and short circuit protection
- ◆ Fanless, convection cooling
- ◆ AC Switch ON/OFF Control
- ◆ No load power consumption (@no load) < 0.15W
- ◆ Comply with EISA 2007 / DoE 6 & EU ErP and CoC 5



### SPECIFICATIONS

Input Voltage Range.....	90~264VAC
Input Current (rms).....	3.0A Max.
Efficiency.....	88% @ full load, vin=230V *
Output Voltage.....	See model list
Voltage Regulation.....	± 5% ~ ±3%
Withstand Voltage.....	I/P-O/P: 4242 VDC (Class II) I/P-O/P(V+): 4242 VDC, I/P-FG: 2121 VDC (Class I)
Operating Temperature.....	-10°C ~ +60°C (derated linearly from 100% load @ 40°C to 50% load @ 60°C)
Storage Temperature.....	-20°C ~ 85°C
Operating Humidity.....	20% to 90% RH
Protections.....	OVP, OLP, Short Circuit Protection
Cooling .....	Convection
Safety Standard.....	IEC/UL/EN 60950-1/62368-1, CE, CB
EMC Standard.....	(EN55032, CISPR22, FCC Part 15) class B, EN61000-3-2, 3, EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55035
Standard output connector.....	4 pin power din (FMP02-4P)
Standard output cable/length.....	UL1571 or UL1185 / 1.0M

\* This data is taken after 30 mins. burn-in  
All specifications are typical at nominal line, full load and 25°C,  
unless otherwise noted.

Model Number	Output Voltage (VDC)	Output Current (A)	Total Reg. %	Ripple Noise (mV)	Max. Watts	EFF. Level
FRA150-S120-z	12	10.0	± 5	120	120W	VI
FRA180-S120-z	12	12.5	± 5	120	150W	VI
FRA150-S150-z	15	8.00	± 5	150	120W	VI
FRA180-S150-z	15	10.0	± 5	150	150W	VI
FRA180-S180-z	18	8.33	± 5	180	150W	VI
FRA180-S190-z	19	7.89	± 3	190	150W	VI
FRA150-S240-z	24	6.25	± 3	200	150W	VI
FRA180-S240-z	24	7.50	± 3	200	180W	VI
FRA150-S360-z	36	4.17	± 3	200	150W	VI
FRA180-S360-z	36	5.00	± 3	200	180W	VI
FRA150-S480-z	48	3.12	± 3	240	150W	VI
FRA180-S480-z	48	3.75	± 3	240	180W	VI

#### Ordering Information:

z= AC Inlet Type Code

z= 4, IEC320 C14 z= 6, IEC320 C6 z= 8, IEC320 C8

\* PSE for on/off switch model (class I only) : FRA150-S120/S150/S240 & FRA180-S120/S150/S180/S190

### MECHANICAL DRAWING (Unit: mm)

