

# F R A 0 9 0

S E R I E S

## 80 ~ 91.2 Watts Single Output DeskTop Type

### FEATURES

- Universal input 100~240VAC
- PF > 0.91 @230VAC, full load
- OVP, OPP, Auto Recovery
- High efficiency / Compact Size
- Comply with EISA 2007 / DoE 6 & EU ErP and CoC 5
- No load power consumption (@no load) < 0.15W



### SPECIFICATIONS

Input Voltage.....90~264VAC  
 Inrush Current..... 30A at 100VAC / 60A at 240VAC  
 Input Frequency..... 47~63Hz  
 Dielectric Withstand.....I/P - O/P: 4242VDC; I/P - FG: 2121VDC  
 Efficiency..... 88% typ. at full load \*  
 Hold Up Time.....10mS at Nominal Line  
 Line Regulation.....± 2% all outputs  
 Load Regulation..... ± 5%  
 Ripple & Noise.....2% max all outputs  
 Operating Temperature..... -30°C ~ +70°C  
 (derated linearly from 100% load @ 40°C to 50% load @ 70°C)  
 Storage Temperature.....-20 to +85°C  
 Protections..... OCP , OVP , Over Power & Short Circuit  
 Safety Standard..... IEC/UL/EN 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..... 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)	Max. Watts	EFF. Level
FRA090-S120-z	12	6.67	80W	VI
FRA090-S190-z	19	4.75	90W	VI
FRA090-S200-z	20	4.50	90W	VI
FRA090-S240-z	24	3.80	91.2W	VI
FRA090-S480-z **	48	1.90	91.2W	VI

\*\* FRA090-S480-4 & 6, comply to DoE 6 only

#### Ordering Information:

z= AC Inlet Type Code  
 z= 4, IEC320 C14 z = 6, IEC320 C6

### MECHANICAL DRAWING (Unit: mm)

