# FRA030/045/050
S E R I E S

## 30~50 Watts Single Output AC-DC Adaptor DeskTop Type

## FEATURES

- Universal input
- OVP, OCP, OPP, Auto Recovery
- No load power consumption (@no load) < 0.075W
- Comply with EISA 2007 / DoE 6 & EU ErP EU2019/1782

## SPECIFICATIONS

Input Voltage.....90~264VAC
Input Current.....1.5A max.
Efficiency.....87% typ. at full load *
No Load Stand By Power.....< 0.5W @ 230 VAC
Hold Up Time.....10mS at Nominal Line
Output voltage.....5 ~ 48VDC
Ripple & Noise.....2% p-p max.
Load Regulation..... ±5% max.
Withstand Voltage.....I/P-O/P: 3000 VAC (Class II)
I/P-O/P(V+): 4242 VDC, I/P-FG: 2121 VDC (For Class I)
Operating Temperature..... -10℃ ~ +60℃
(derated linearly from 100% load @ 40℃ to 50% load @ 60℃)
Storage Temperature..... -20℃ to +85℃
Protections.....OCP , OVP , Over Power & Short Circuit
Safety Standard.....IEC/UL/EN62368-1,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.....DC barrel jack
Standard output cable / length.....UL1185 or UL1571 / 1.0M

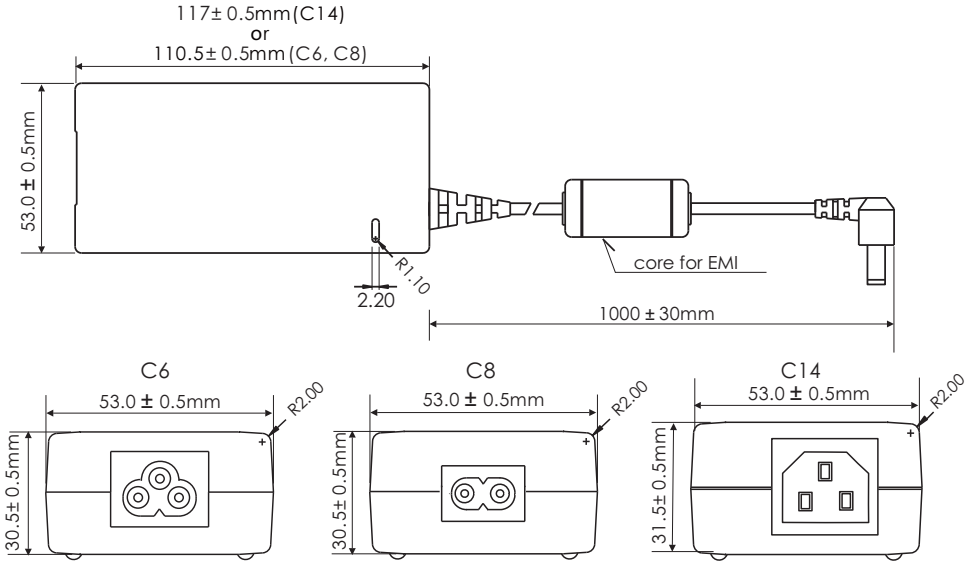
* This data is taken after 30 mins. burn-in
All specifications are typical at nominal line, full load and 25℃, unless otherwise noted.

| Model Number | Output Voltage (VDC) | Output Current (A) | Max. Output | EFF. Level | LPS |
|---|---|---|---|---|---|
| FRA030-S05-x | 5~7 ** | 6.00~4.30 | 30W | VI | |
| FRA045-S09-x | 7~9 | 6.00~5.00 | 45W | VI | |
| FRA045-S12-x | 12~15 | 3.75~3.00 | 45W | VI | V |
| FRA045-S15-x | 15~18 | 3.00~2.50 | 45W | VI | V |
| FRA045-S24-x | 18~24 | 2.50~1.88 | 45W | VI | V |
| FRA050-S12-x | 12~15 | 4.17~3.33 | 50W | VI | V |
| FRA050-S15-x | 15~18 | 3.33~2.78 | 50W | VI | V |
| FRA050-S24-x | 18~24 | 2.78~2.08 | 50W | VI | V |
| FRA050-S36-x | 30~36 | 1.67~1.38 | 50W | VI | V |
| FRA050-S48-x | 40~48 | 1.25~1.04 | 50W | VI | V |

** 6VDC and above, efficiency level V only

* PSE is available for the below models (C14 & C6 inlet only) :
FRA030-S05 ; FRA050-S12/S15/S24/S36(30V) ; FRA060-S12/S15/S24/S36(30V)

* CCC is available for C14 & C6 inlet models only

Ordering Information:
x= AC Inlet Type Code
x= 4, IEC320 C14 x = 6, IEC320 C6 x = 8, IEC320 C8

## MECHANICAL DRAWING (Unit: mm)