

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 > 0.95 @230VAC, full load
- ◆ OVP, OLP and short circuit protection
- ◆ Fanless, convection cooling
- ◆ Meet CEC regulation, efficiency level V
- ◆ AC Switch ON/OFF Control
- ◆ Class I / Class II Insulation

SPECIFICATIONS

Input Voltage Range.....	90~264VAC
Input Current (rms).....	2.3A Max.
Efficiency.....	85% type.@ full load, vin=230V
Output Voltage.....	See model list
Voltage Regulation.....	± 5% ~ ±3%
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°C ~ +50°C (derated linearly from 100% load @ 40°C to 75% load @ 50°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/EN60950-1, CE, CB
EMC Standard.....	[EN55022, CISPR22, FCC Part 15] Clas B, EN61000-3-2, 3, EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024
Standard Output Connector.....	4 pin power din (FMP02-4P)
Standard Output Cable/Length.....	UL 1571 or UL1185

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	CEC*
FRA150-S120-Z	12	10	± 5	120	120W	V
FRA180-S120-Z	12	12.5	± 5	120	150W	V
FRA150-S150-Z	15	8	± 5	150	120W	V
FRA180-S150-Z	15	10	± 5	150	150W	V
FRA180-S180-Z	18	8.33	± 5	180	150W	V
FRA180-S190-Z	19	7.89	± 3	190	150W	V
FRA150-S240-Z	24	6.25	± 3	200	150W	V
FRA180-S240-Z	24	7.5	± 3	200	180W	V
FRA150-S360-Z	36	4.16	± 3	200	150W	V
FRA180-S360-Z	36	5	± 3	200	180W	V
FRA150-S480-Z	48	3.12	± 3	240	150W	V
FRA180-S480-Z	48	3.75	± 3	240 <td 180W	V	

Ordering Information:

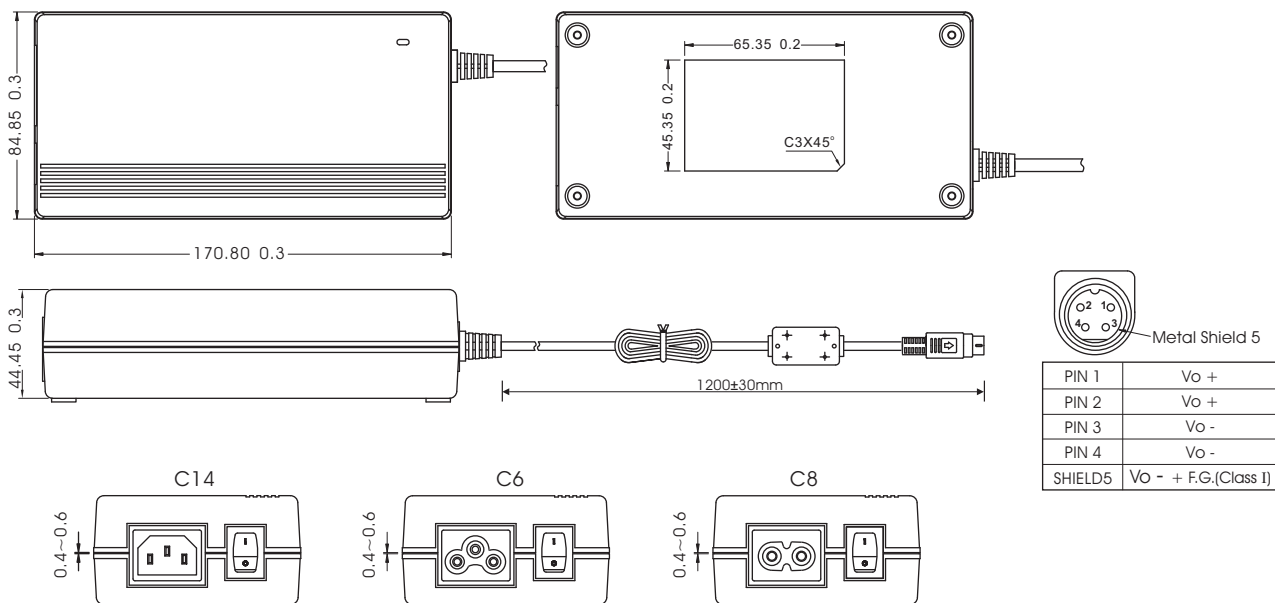
* z can be 4 or 6 for "4=C14", "6=C6", "8=C8" type.

* Those items with CEC level V compliance are also compliant to ErP step 2.

* CEC compliance model standby power (@ no load) < 0.5 W.

* Safety "PSE", only for Non-AC-Switch models (option).

MECHANICAL DRAWING (Unit: mm)



Stontronics Ltd

Chancerygate Business Centre, Cradock Road, Reading, Berkshire, RG2 0AH

Tel: +44 (0) 118 931 1199 - Fax: +44 (0) 118 931 1145 - Email: info@stontronics.co.uk - www.stontronics.co.uk

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