PRODUCT SPECIFICATION RACK MOUNT CARD CAGE



QUALITY DESIGN

The design approach employed by IFS for equipment mounted within the model R3 Chassis Rack Unit with Integral 115/230 VAC Power Supply, provides for the elimination of a single-point failure in the event of a major fault within any module located within the chassis rack. This is accomplished through the use of automatic electronic current limiting within each rack-mountable module, rather than to provide the current limiting within the power supply unit which supports the power requirements for equipment located within the rack. In nearly all competing designs, a major fault within a module, located within the chassis rack, results in the power supply unit going into a current limiting condition, and as a result, all of the modules located within the rack shut down. The R3 Rack design employed by IFS eliminates this possibility, as only the faulty module shuts down, and the operation of the other devices within the rack continues unimpaired. This automatic current limiting feature is also self-resetting, should the fault or overload be of a

temporary or intermittent condition. Furthermore, all modules located within the chassis rack are hot-swappable, so that it is not necessary to power-down the rack when removing or replacing modules.

Rather than utilizing a switching-mode or linear DC power supply for providing the operating power to the rack as employed by most competing designs, the IFS Model R3 Chassis Rack uses a simple under stressed step-down power transformer, and all rectification, filtering, and regulation is performed within each rack mounted module. The use of a step-down power transformer for the power supply unit results in a significantly higher MTBF than any switching-mode or linear DC power supply can provide, as there are no semiconductors, electrolytic capacitors, etc., to degrade the reliability of the supply. In addition, the high-reliability transformer power supply and current limiting built into each module, eliminates the necessity of providing redundant power supplies within the chassis rack, as the overall system reliability is still much higher (and less costly) than can be provided with a redundant power supply design approach.



- Available at: ifS.com
 - A & E Specifications, (CSI)
 - AutoCAD Drawings
 - Operation Manuals
 - Technical Bulletins

	PART NUMBER	DESCRIPTION
	R3	19" Rack, 115 VAC Input (includes power supply)
	R3-DC-115	19" Rack, 115 VAC Input (DC Back Plane included)
	R3-24	19" Rack, 24 VDC Input (includes power supply)
	R3-48	19" Rack, 48 VDC Input (includes power supply)
	R3-230	19" Rack, 230 VAC Input (includes power supply)
	R3-CH	19" Rack, No power supply
OPTIONS	R3-BP	Blank Panel (1")
	PS-R3	115 VAC Power Supply
	PS-R3-24	24 VDC Power Supply
	PS-R3-48	48 VDC Power Supply
	PS-R3-230	230 VAC Power Supply

ORDERING INFORMATION

International Fiber Systems, Incorporated
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TECHNICAL SPECIFICATION RACK MOUNT CARD CAGE

SPECIFICATIONS

	0120
115 VAC (other voltages available)	Rack
	Ship
20 VAC C.T. @4.0A	
	ENV
14 one-inch modules or 7 two-inch modules.	MTB
Refer to Data Sheet for each model number	Oper
to verify the required number of slots in the	Stora
R3 Card Cage.	
14 slow blow (Pack power supply)	
Tuseu)	
Detachable, IEC-connectorized.	
Allows easy field replacement or exchange	
for various worldwide AC power plug	
configurations	
	 20 VAC C.T. @4.0A 14 one-inch modules or 7 two-inch modules. Refer to Data Sheet for each model number to verify the required number of slots in the R3 Card Cage. 1A slow blow (Rack power supply) (Plug-in modules individually electronically fused) Detachable, IEC-connectorized. Allows easy field replacement or exchange for various worldwide AC power plug

ELECTRICAL & MECHANICAL

Circuit Board: Size (in./cm.) (LxWxH) Rack Mount: Shipping Weight: Meets IPC Standard

19.0 x 7.0 x 5.25 in., 48.3 x 17.8 x 13.3 cm < 5 lbs./2.15 kg

ENVIRONMENTAL

MTBF: Operating Temp: Storage Temp: > 100,000 hours
 -40° C to +74° C, ambient
 -40° C to +85° C, ambient



MADE IN THE USA

