

7014-T42

200-240V, 30 or 60Amp, 3-Ph or 1-Ph



Qty (1 to 6) per 7014,

#9188/7188 PDU to Wall Powercord F/C's:

- F/C 6654 = US/CAN NEMA L6-30R 200-240V(24A)
- F/C 6655 = US/CAN RS-9C33U0 or RS-3933 200-240V(24A)
- F/C 6492 = US/CAN IEC309 360C6W or 360R6W, 200-240V2P+G,(60A)
- F/C 6489 = EMEA IEC309 532C6 or 532R6, 230V 3P+N+G,(32A)
- F/C 6656 = EMEA IEC309 332C6 or 332R6 230V P+N+G,(32A)
- F/C 6491 = EMEA IEC309 363C6 or 363R6, 230V P+N+G,(63A)
- F/C 6653 = Swiss IEC309 516C6 or 516R6, 230V 3P+N+G,(16A)
- F/C 6657 = Aus/NZ PDL 230-240V(24A)
- F/C 6658 = Korean Plug 220V(24A)

- F/C 9188 = Base PDU 14' Pwrcord w/12 IEC320-C13 outlets(max 1)
- F/C 7188 = Base PDU 14' Pwrcord w/12 IEC320-C13 outlets(max ?)

#917x/717x PDU to Wall Powercord Default (F/C9800) = NEMA L6-30R:

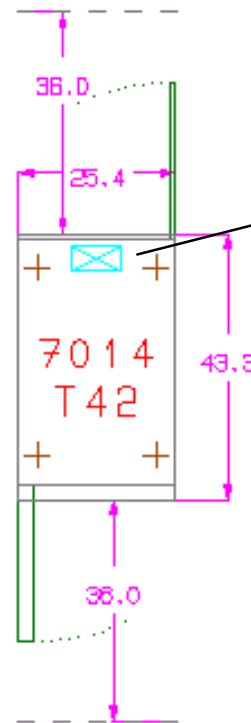
- F/C 9171 = Base PDU 14' Pwrcord w/6 IEC320-C13 outlets(max 1)
- F/C 6171 = Addn PDU 14' Pwrcord w/6 IEC320-C13 outlets(max 5)
- F/C 9176 = Base PDU 14' Pwrcord (9) IEC320-C13 & (2) C19 outlets(max 1)
- F/C 7176 = Addn PDU 14' Pwrcord (9) IEC320-C13 & (2) C19 outlets
- F/C 9801 = RS-9C33U0 or RS-3933 Watertight

F/C 6095 = Powercord PDU to Ext. Device

7311-D10: p570 I/O Drawer 200-240V
Holds (1) or (2) D10 Drawers
Max Drwr = .21KVA, .2KW, .683KBtu
Drawer = 8.6Wx28Dx6.6H @37lbs.
F/C 7311 = 2 Position Drawer Enclosure
Enclosure = 4U 17.5Wx28Dx6.9H @86lbs.
F/C 6278 = Base or Redundant PS 250W
F/C 9911 = Rk-PDU 4m powercord
F/C 9800 = Powercord US/Can

7311-D11: p570 I/O Drawer 200-240V
Holds (1) or (2) D10 or D11Drawers
Max Drwr = .24KVA, .225KW, .768KBtu
Drawer = 8.6Wx28Dx6.6H @37lbs.
F/C 7311 = 2 Position Drawer Enclosure
Enclosure = 4U 17.5Wx28Dx6.9H @86lbs.
F/C 6276 = Base or Redundant PS 288W
F/C 6459 = Rk-PDU 4m powercord
F/C6470 = Powercord US/Can

7311-D20: p570 I/O Drawer 200-240V
Max Drwr = .358KVA, .34KW, 1.161KBtu
Max Drwr = 4U 19Wx24Dx7H @101lbs.
F/C 6268 = Base or Redundant PS 435W
F/C 9911 = Rk-PDU 4m powercord
F/C 9800 = Default Powercord US/Can
F/C 9900 = Rack Powercord US/Can 4m



4"x 8" Cutout

Best Alignment for cooling has front edge of frame on floor tile edge.

Ea. 570 Drwr = 4U 19"W x 31.1"D x 6.85"H @140

- Max 9117 = 1.368KVA, 1.3KW, 4.437KBtu/ 4W Ea. Drawer
- Max 9117 = w/PDU 9176/7176 @30A (3) Server Drwr per (2) PDU's
- Max 9117 = w/PDU 9188/7188 @30A (3) Server Drwr per (2) PDU's
- Max 9117 = w/PDU 9188/7188 @60A (6) Server Drwr per (2) PDU's

NOTE: (1) Perf Tile in front rack frame
Min Svc Clr = 36" front & rear

- F/C 1847 = Proc cable (2) drawer system
- F/C 1848 = Proc cable (3) drawer system
- F/C 1849 = Proc cable (4) drawer system

Recommended Limits of temperature and humidity are 70 to 74F and 40 to 50%RH.

2.0M, 42U EIA
Base 25.4W x 43.3D x 79.3H, 575Lbs empty, 2045Lbs full.

IBM POWER PROFILE REPORT

Jeff Co Schools, p570, 11/15/2004

Dan Dionne, 303-773-5821, djdionn@us.ibm.com

EQUIPMENT LIST

Unit	Model	Ph	Feat#	Mfg	Qty	Plugs	Notes	Comments
9117	570	L-L	BASE	IBM	001	X9	1,	eServer p5 570 (Rack Mounted Unit)
9117	570	L-L	6458	IBM	004	X1		Power Cable-Drawer to IBM PDU (250V,10A@14 ft)
9117	570	L-L	7879	IBM	004	X9	18	eServer p5 570 (System Drawer Enclosure)
7310	CR2	L-L	BASE	IBM	001	X1	1,18	POWER5 Rackmount HMC
7316	TF3	L-L	BASE	IBM	001	X1	1,28	17" Flat Panel Console & Keyboard, 1U
7014	T42	L-L	BASE	IBM	001	T	6,11	Rack w/Base PDU (9171/9176/9188)
7014	T42	L-L	7176	IBM	002	T	6,11	Type 7 PDU (IEC320-C13 x 9 / C19 x 2)

SYSTEM DATA

60 HZ DATA	3 PHASE	1 PH L-N	1 PH L-L	TOTAL (3PH)
SYSTEM VOLTAGE..=	208	120	208	208 VOLTS
RMS I/LINE.....=	0.000	0.000	28.087	16.216 AMPS
PEAK I/LINE.....=	0.000	0.000	39.720	22.933 AMPS
POWER FACTOR....=	0.000	0.000	0.953	0.953 PF
REAL POWER.....=	0.000	0.000	5.570	5.570 KW
REACTIVE POWER..=	0.000	0.000	-1.762	-1.762 KVARs
APPARENT POWER..=	0.000	0.000	5.842	5.842 KVA
AIR HEAT.....=	0.000	0.000	19.011	19.011 KBTU/HR
WEIGHT.....=	.	.	.	1191.00 LB

INRUSH DATA

THE PEAK INRUSH CURRENTS PER SINGLE UNIT ARE:

UNIT	MODEL	FEATURE/PN	PH	AMPS
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9117	570	BASE	L-L	88.00
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WORST CASE 1/2 CYCLE PEAK I TO UTILITY SOURCE IF NO POWER SEQUENCING:

TOTAL FOR ALL 1 PHASE L-L 208V LOADS = 88 AMPS

- 1) INRUSH VALUE SHOWN "PER SINGLE UNIT" IS THE PEAK VALUE FOR 1 UNIT OF EACH TYPE INCLUDED IN THE LIST.
- 2) INRUSH VALUES SHOWN AS "WORST CASE 1/2 CYCLE" ARE THE PEAK VALUES FOR THE TOTAL UNITS x QUANTITY PER PHASE TYPE.
- 3) INRUSH CURRENTS FOR VARIOUS UNITS DO NOT OCCUR SIMULTANEOUSLY SINCE UNITS ARE NORMALLY SEQUENCED ON.
- 4) ALL INRUSH CURRENTS (UNLESS OTHERWISE STATED) ARE FOR A HALF CYCLE OR LESS.

UNIT DATA

BASE MACHINE ONLY / 60 HZ. SYSTEM

UNIT	MODEL	FEATURE/PN	KW	KVA	KBTU AIR	LBS/UNIT
9117	570	7879	1.300	1.368	4.437	140
7310	CR2	BASE	0.350	0.350	1.195	28
7316	TF3	BASE	0.020	0.020	0.068	28
7014	T42	BASE	0.000	0.000	0.000	575

UNIT DATA NOTES: 1) VALUES GIVEN ARE FOR 1 UNIT OF THE TYPE SHOWN

PLUG NOTES

REF : PROVIDED WITH MACHINE : : PROVIDED BY CUSTOMER
CODE : POWER CORD : RATING : INLINE
PP/BU : REF PLUG : DESCRIPTION : VOLTS : AMP : PHASE : WIRES : CONNECTOR OR RECEPTACLE
T 12 : NEMA L6-30P : LOCKING : 250 : 30 : 1 : 3 : L6-30R / L6-30R
X1 : IEC320 C13/C14 PDU/Rack Cord (10/15A)
X9 : Plug Type(s) Determined by Feature Code(s) (13XX, 14XX, 98XX, etc.)
HH - HARVEY HUBBELL OR IEC 309 EQUIVALENT
IEC - INTERNATIONAL ELECTROTECHNICAL COMMISSION
NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
BU - FIGURE NUMBER IBM BULLETIN C-B-2-4700-009
PP - INTERNAL REFERENCE USED IN POWER PROFILE AND
IN MANY IBM INSTALLATION PLANNING MANUALS

SYSTEM NOTES

- 1, POWERED FROM ANOTHER UNIT OR RACK.
- 6, EACH 7014 BASE FRAME SHOWN AS INCLUDING ONE BASE PDU - F/C 9171/9176/9188. PLUG TYPE & CORD LENGTH FOR EACH PDU ARE CONTROLLED BY FEATURE CODES. EXAMINE THE MACHINE CONFIGURATION TO DETERMINE EXACT PLUG/CORD COMBINATION: F/C 9800 OR 6442 OR 6654 = NEMA L6-30P, 30A (14FT CORD)
- 11, PROVIDES POWER TO OTHER UNITS.
- 18, VALUES SHOWN IN THE POWER PROFILE FOR THIS ENTRY REPRESENT A FULLY LOADED (MAXIMUM CONFIGURED) UNIT, DEVICE OR FEATURE. THIS MAY ALSO INCLUDE BUT NOT LIMITED TO MANUFACTURERS SPECIFICATIONS LISTED AS "WORST-CASE" CONDITIONS.
- 28, VALUES SHOWN IN THE POWER PROFILE FOR THIS ENTRY REPRESENT THE AVERAGE CONFIGURATION FOR THE UNIT, DEVICE OR FEATURE. THIS MAY ALSO BE LISTED IN THE MANUFACTURERS SPECIFICATIONS AS A "TYPICAL" CONFIGURATION.

GENERAL NOTES

- 1) KVA TOTALS ARE A VECTOR SUM, NOT ARITHMETIC SUM.
- 2) TOTAL HEAT VALUES ARE DERIVED FROM TOTAL SYSTEM POWER, NOT UNIT HEAT SUM.
- 4) THE VALUES SHOWN ABOVE ARE FOR DATA PROCESSING EQUIPMENT ONLY. ADDITIONAL POWER AND A/C LOADS SHOULD BE ADDED TO COMPENSATE FOR NON-DATA PROCESSING EQPT. AND ROOM LOSSES. CONSULT YOUR POWER & A/C CONTRACTORS OR CONSULTANTS TO DETERMINE IF THE TOTAL CAPACITY INSTALLED OR PLANNED IS ADEQUATE.
- 5) CERTAIN POWER CONVERSION TECHNOLOGIES USED IN THE DATA PROCESSING INDUSTRY CAN CREATE UNANTICIPATED HARMONIC CURRENTS. THIS OCCURS WHEN LARGE NUMBERS OF SINGLE PHASE PRODUCTS ARE POWERED FROM THREE PHASE SYSTEMS. CONSEQUENCES ARE A NEUTRAL CURRENT UP TO 1.73 TIMES THE PHASE CURRENT FOR THESE PRODUCTS, WITH POSSIBLE OVERLOADING OF TRANSFORMERS AND BUILDING WIRING. ITIC TECHNICAL DOCUMENT (FORMERLY CBEMA) 'THREE PHASE POWER SOURCE OVERLOADING CAUSED BY SMALL COMPUTERS AND ELECTRONIC OFFICE EQUIPMENT' (JUNE 1, 1987), DISCUSSES DERATING TRANSFORMERS AND OTHER PRACTICES FOR DEALING WITH THIS SITUATION (WWW.ITIC.ORG).

6) FUTURE GROWTH OF THIS DATA PROCESSING SYSTEM MAY REQUIRE GREATER POWER AND COOLING REQUIREMENTS THAN SHOWN IN THIS POWER PROFILE REPORT. THIS CAN BE DUE TO ACTIONS SUCH AS; MODEL UPGRADES, THE ADDITION OF MORE DEVICES OR ADDING FEATURES THAT REQUIRE MORE POWER. IT IS GOOD PRACTICE TO RUN ANOTHER POWER PROFILE BASED ON AN ESTIMATE OF FUTURE GROWTH AND CONSIDER THESE REQUIREMENTS ALSO WHEN SPECIFYING THE POWER AND COOLING SYSTEMS FACILITIES.

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Power Distribution Unit Requirements Estimates¹

Drawers	PDU FC 7176/7177			PDU FC 7188/9188		
	p5 520	p5 550	p5 570 ²	p5 520	p5 550	p5 570
1	2	2	2	2	2	2
2	2	2	2	2	2	2
3	2	2	2	2	2	2
4	2	2	4	2	2	2
5	2	2	4	2	2	2
6	2	2	4	2	2	2
7	2	4	6 ³	2	2	2
8	4	4	6	2	2	4
9	4	4	6	2	2	4
10	4	4	8	2	2	4

¹ Assumes redundant power (each power supply connected to separate PDU).

² For p5 570 connected to 7176 PDU, maximum of two outlets per group of three may be utilized.

³ Shaded area indicates possible rack PDU limits (maximum 4 for T00, maximum 7 for T42).

Case# bk38822c p570 lpar-6

Prepared by Matt Wolanski 10/25/04

Hardware Price File : US Dollars--POWERSystemsComm 10/23/2004
 Software Price File : US Dollars--POWERSystemsComm 10/23/2004

9117-570	bk38822c p570 lpar-6:9117 Model 570	1
0005	Authorized Assembler Billing Adjustment Indicator	1
0009	AAP - Light Mfg Order	1
0265	AIX Partition Specify	6
1846	Op Panel	1
1849	Processor Cable, Four-Drawer System	1
1859	SP Flex Cable, Four-Drawer System	1
2640	IDE Slimline DVD-ROM Drive	1
3274	73.4 GB 10,000 RPM Ultra320 SCSI Disk Drive Assembly	12
4454	8192MB (4x2048MB) DDR1 DIMM Memory	8
4651	Rack Indicator, Rack #1	1
5701	IBM 10/100/1000 Base-TX Ethernet PCI-X Adapter	6
5716	2 Gigabit Fibre Channel PCI-X Adapter	8
6458	Power Cable -- Drawer to IBM PDU, 14-foot, 250V/10A	8
7164	IBM Rack-mount Drawer Rail Kit	4
7305	Software Preinstall (AAP)	1
7830	Processor, 0/2 Way 1.65 GHz with DDR1 memory	8
7865	CEC Backplane	4
7866	I/O Backplane	4
7867	Midplane	4
7868	DASD Backplane	4
7869	Media Backplane	1
7870	Power Midplane	4
7875	CPU Regulator	12
7878	Serial Port Riser Card	4
7879	System Drawer Enclosure	4
7881	Service Processor Card (FSP)	1
7888	AC Power Supply, 240V, 1400 W	8
7897	Single Processor Activation For #7830	8
8452	Zero-priced Processor Activation Code for #7830	8
9300	Language Group: US English	1
7310-CR2	HMC 1:7310-CR2 Rack-mounted Hardw.Mgmt.Console	1
0009	AAP - Light Mfg Order	1
0961	Hardware Management Console for POWER5 Licensed Machine Code	1
4651	Rack Indicator, Rack #1	1
6458	Power Cord (14ft) 250V/14A, IEC320/C13, IEC320/C14	1
7801	Ethernet Cable, 6M, Hardware Management Console to System Unit	1
9300	Language Group: US English	1
7316-TF3	IBM 7316-TF3 Rack-Mounted Flat Panel Console Kit	1
6350	Travel Keyboard, US English	1
9300	Language Group Specify - US English	1
9911	Power Cord (4M) All (Standard Cord)	1
7014-T42	Rack 1:Rack Model T42	1
0233	Rack Content Specify: 7316/TF3 - 1EIA	1
0242	Rack Content Specify: 9117/570 - 16EIA	1
0247	Rack Content Specify: 7310/CR2 - 1EIA	1
6069	Front door (Black) for High Perforation (2m racks)	1
6098	Side Panel (Black)	2
7176	Power Distribution Unit - Side Mount, Single Phase, L6-30 Connector	2
9176	Power Distribution Unit Specify - Side Mount, Single Phase, L6-30 Connector	1
9300	Language Group: US English	1
9800	Power Cord Specify - US/Canada	1