Base Load Power Hub (BLPH)

INTEGRATED CONTROL AND SAFETY SYSTEM (ICSS)

Power Consumption and Heat Dissipation

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						POWER					HEAT				WEIGHT
						UPS A 220Vac		UPS B		NOT UPS (Light, Socket)	DISSIP. (W)		DISSIP. (BTU/hr)		Weight (Kg)
LOCATION	CABINET NAME	CABINET DESCRIPTION	MATERIAL CODE	QTY	W	Tot W	CONSUM. (W)	Tot W	CONSUM. (W)	Tot W NOT UPS	max	typical	max	typical	Approx. (avg)
PCS SYSTEM (Two cabinets assembled)											565	452	1,928	1,542	530
ITER	B400-PCS-001	PCS System Cabinet		1	-		1,218		1,218						280
			AFV30D-A41262	1	230	230		230							
			ANB10D-426/CU2N	3	120	360		360							
ITER	B400-PCS-002	PCS Marshalling Cabinet													*250*
			POWER SUPPLY Module 24VDC 20A	2	550	550		550							
		(3)	PLC-RSC-24DC/21	18	0.22	-		-							
			POWER SUPPLY Module 12VDC 1.25A	2	50	50		50							
			COOLING FAN	2	14	28		28							
			INTERNAL LIGHT	2	7					14					
			SERVICE SOCKET	1	130					130					
			MISCELLANEOUS												
SIS SYSTEM (One cabinet)											360	288	1,228	982	250
ITER	B400-SIS-001	SIS System / Marshalling Cabinet			-		930		930						
		(1)	S2SC70D-FA12010	1	227	227		227							
		(1)	SNB10D-425/LCU2N	2	69.5	139		139							
			POWER SUPPLY Module 24VDC 20A	2	550	550		550							
		(2)	KFD0-RSH-1.4S.PS2	23	1.5	-		-							
			COOLING FAN	1	14	14		14							
			INTERNAL LIGHT	1	7					7					
			SERVICE SOCKET	1	130					130					
			MISCELLANEOUS (Only dissipation)												
FGS SYSTEM (Three cabinets assembled)											720	576	2,458	1,966	790
ITER	B400-FGS-001	FGS System Cabinet			-		1,377		1,377						*290*
		(1)	S2SC70D-FA12010	1	257	257		257							
		(1)	SNB10D-425/CU2N (or SNB10D-425/CU2T)	5	105.6	528		528							
ITER	B400-FGS-002 / 003	FGS Marshalling Cabinet 1 & 2													*500*
			POWER SUPPLY Module 24VDC 20A	2	550	550		550							
		(6)	IS BARRIER HiC2025	30	1.1	-		-							
		(2)	KFD0-RSH-1.4S.PS2	95	1.5	-		-							
			COOLING FAN	3	14	42		42							
			INTERNAL LIGHT	3	7					21					
			SERVICE SOCKET	1	130					130					
			MISCELLANEOUS (Only dissipation)												
ITER	B400-EMCS-001	EMCS System Cabinet		1	-		564		564		225	180	768	614	300
			POWER SUPPLY Module 24VDC 20A	2	550	550		550							
			I/O Module (SEL-2240 Axion or equivalent converter)	2	-	-		-							
			COOLING FAN	1	14	14		14							
			INTERNAL LIGHT	1	7					7					
			SERVICE SOCKET	1	130					130					
			MISCELLANEOUS												
ITER	B400-SRV-001	Server cabinet ITER (5)		1			734		710	130	743	594	2,534	2,027	200
			8-Port Slideaway with 17" LCD KVM Switch	1	24	24		-							
			Lantime NTP server incl. 8 (2)x 10/100 Mbit ports	1	50	50		50							
			CI-Core (Server) - ITER	2	750	330		330							
			EWS (PCS , SAFETY)	1	750	165		165							
			IAMS Server	1	750	165		165							
ITER	B400-NET-001	Network cabinet ITER (5)		1			1,255		1,255	130	863	691	2,945	2,356	300
			FortiGate Firewall FG-100 F	2	26.5	53		53							
			FortiGate Firewall FG-80 F	2	8	16		16							
		(6)	Managed Switch L2, Hirschmann, 12 port Gb	4	-	-		-							
		(6)	Managed Switch L2, Hirschmann, 24 port Gb	5	-	-		-							
		(6)	Managed Switch L2, Hirschmann, 16 port Gb	1	-	-		-							
			RTACs (SEL-3555)	2	240	384		384							
			L2 Switch 24 Port (Vnet/IP) AC Red.	4	35	140		140							
			Netgear fully managed switch	2	80	112		112							
			ALIM.24VDCD 20A	2	550	550		550							
		(2)	KFD0-RSH-1.4S.PS2	8	1.5	-		-							
		(6)	Profinet Converter Mgate5103	2	5.5	-		-							
			COOLING FAN	1	14	14		14							
			INTERNAL LIGHT	1	7					7					
			SERVICE SOCKET	1	130					130					
			TOTAL ESTIMATED ITER CONSUMPTION (W)				6,078		6,054	966	2,911	2,329	9,932	7,946	2,370

						POWER					HEAT				WEIGHT
						UPS A		UPS B		NOT UPS (Light, Socket)	DISSIP. (W)		DISSIP. (BTU/hr)		Weight (Kg)
LOCATION	CABINET NAME	CABINET DESCRIPTION	MATERIAL CODE	QTY	W	Tot W	CONSUM. (W)	Tot W	CONSUM. (W)	Tot W NOT UPS	max	typical	max	typical	Approx. (avg)
OER	HKN-WPO1-BLPH-NET-01 HKN-WPO1-BLPH-SRV-01	Server/Network cabinet 1 / 2 (7)		1			2,074		2,050	(8)	1,673	1,338	5,709	4,567	570
			FG-40 F/Equivalent	4	12	48		48							
		(6)	Managed Switch L2, Hirschmann, 12 port Gb	4	-	-		-							
		(6)	Managed Switch L2, Hirschmann, 24 port Gb	2	-	-		-							
			8-Port Slideaway with 17" LCD KVM Switch	1	24	24		-							
			CI-Portal server	2	750	330		330							
			CI-Portal / View (AMS, OWS, CAP)	1	750	165		165							
			EWS Client PC for RDP	1	750	165		165							
			AV Server	1	600	132		132							
			WSUS Server	1	600	132		132							
			Domain Controller	2	600	264		264							
			B&R Server	1	600	132		132							
			NMS Server (Domain Controller)	1	600	132		132							
			ALIM.24VDCD 20A	2	550	550		550							
		(6)	AXL F BK ETH	1	16	-		-							
		(6)	AXL F DI8/2 24DC 1F	1	5	-		-							
			INTERNAL LIGHT	1	7	7		7							
			SERVICE SOCKET	1	130	130		130							
			TOTAL ESTIMATED OER CONSUMPTION (W)				2,074		2,050	-	1,673	1,338	5,709	4,567	570

						POWER					HEAT				WEIGHT
						UPS A		UPS B		NOT UPS (Light, Socket)	DISSIP. (W)		DISSIP. (BTU/hr)		Weight (Kg)
LOCATION	CABINET NAME	CABINET DESCRIPTION	MATERIAL CODE	QTY	W	Tot W	CONSUM. (W)	Tot W	CONSUM. (W)	Tot W NOT UPS	max	typical	max	typical	Approx. (avg)
CCR	-	-		1			918		773		1,025	820	3,498	2,799	
(9)			Client Workstation (2 LCDs)	2	490	490		490							40
			Client Workstation	1	350	175		175							20
			65inch Large Screen	1	100			100							20
		(4)	Printer	1	245	245		-							15
			Fortigate firewall FG-40 F	1	8	8		8							10
			TOTAL ESTIMATED CCR CONSUMPTION (W)				918		773	-	1,025	820	3,498	2,799	105

notes

(1) Consumption and Dissipation hestimated with Yokogawa official tool for SIS system
(2) Coil powered by ProSAFE System
(3) Coil powered by CENTUM System
(4) Considered consumption during operation mode
(5) Cabinets mechanically assembled
(6) Device powerd with 24Vdc from bulk power distribution module
(7) Cabinets mechanically assembled with common incoming lines and power distribution
(8) NOT UPS line not available on OER
(9) Location to be confirmed by RM