

Intelepwer CXS110 2-3

DC Auxiliary Switching

Intelepwer CXS110 is a range of DC auxiliary power systems designed for 110VDC high current industrial switching applications. The battery is sized in accordance to IEEE 485, to supply a continuous load for periods of 4-hours, 8-hours, 12-hours, or 24-hours as well as catering for a single random momentary load (<1-min). (Figure 1)

Supplied standard with each system is AC Input Isolation, DC Battery Isolation for each string and a Charger Output breaker. Two distribution breakers are installed as a minimum with the option of five breakers (maximum) available on request. An earth leakage detection device is integrated into all Intelepwer CXS110 systems, continuously and actively detecting faults to ground.

The hot-pluggable Intelepwer CXCR controller monitors the condition and actively controls each modular CX switch-mode rectifier in the system. This controller is supplied with four standard contacts raising alarms for; AC failure alarm, Earth fault leakage, Urgent and Non Urgent alarms. The CXCR controller also has the added feature of network ready monitoring, control functionality using TCP/IP protocol and web page access, with SNMP and SCADA capability.

Best of all selection is simple. By using the supplied matrix and referencing the corresponding 'Continuous' and 'Momentary' power requirements, it is possible to quickly select the most suitable CXS110 DC auxiliary power system for your application.

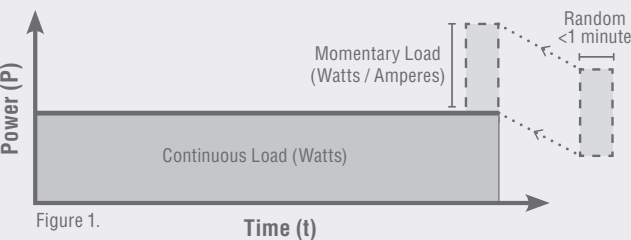
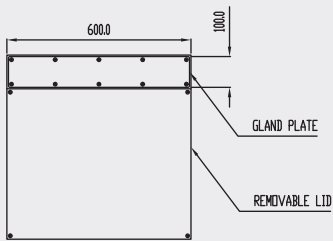
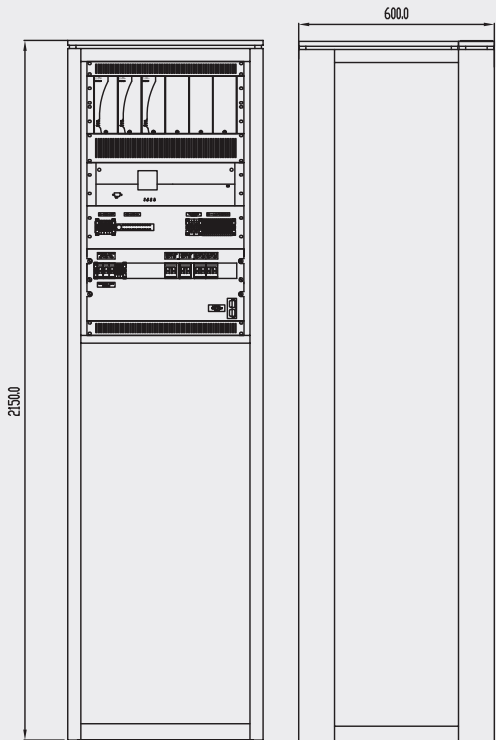


Figure 1.



System top view



System front view

System side view

		Momentary Loads					
Continuous Loads	Watts	3000	5500	7500	10500	12500	15000
	Amperes	30.9	56.6	77.2	108	128.6	154.3
	4 hours						
	450	4.3					•
	800	7.6			•	•	•
	1100	10.4		•	•	•	•
	8 hours						
	450	4.3			•	•	•
	800	7.6	•	•	•	•	
	1100	10.4	•	•			
	12 hours						
	450	4.3		•	•	•	•
	800	7.6	•	•			
	1100	10.4					
	24 hours						
	450	4.3	•				

For further information please refer to CenturyYuasa website www.intelepwer.com.au, or contact; Australia: 1300 364 877 New Zealand: 0800 236 8879

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Electrical input specifications

VAC Input:	240VAC / 415VAC
VAC Operating:	176 to 320VAC
Max Input Current (A):	5.0A @ 240VAC (per rectifier)
Power factor:	>0.99 (100% Load)
Input frequency:	45 - 66Hz

Electrical output specifications

Rectifier type:	Intelepower 1.1kW Modular Switch Mode Rectifier
Battery specification:	150Ah
System nominal VDC:	110VDC
System VDC range:	97.2 to 122.85VDC
Rated Output:	1100 Watts
Number of rectifiers:	3
Max. Number of rectifiers:	6
Efficiency:	>93% (100% Load)
Power Save:	User Configurable
Load regulation (static):	<±0.5%
Line regulation (static):	<±0.1%
Cooling:	Natural convection
Heat dissipation	
System:	<846 BTU per hour
Rectifier:	<295 BTU per hour per module

Electrical other specifications

AC Isolation:	20A per Phase MCB
Charger Output Isolation:	63A Double Pole MCB
Battery Isolation (per string):	63A Double Pole MCB
Distribution:	2 x 50A Double Pole MCB
Monitoring & Control:	LCD touchscreen display supervision of AC Mains, rectifiers, battery, breakers and earth fault. Intelepower CXCR is network ready with integrated SNMP and web based access.
Alarms:	Reports AC Mains failure, Earth Fault Alarm and customer definable urgent and non-urgent alarms.

Mechanical

Power Cabinet configuration:	45RU (Standard colour - N35)
Power Cabinet IP rating:	IP21
Battery racking configuration:	N/A
Dimensions (mm):	2150H x 600W x 600D
System weight:	754.0kgs
Floor loading:	20.5kPa

Environmental

System rated temperature:	25°C
Operating temperature range**:	0°C to 45°C
Operating humidity range:	0 to 95% RH non-condensing
Elevation:	0 to 2000m
Design considerations:	AS 3011 Part 2 AS 2676 Part 2 AS 4044 AS 3000 IEEE 485

**Battery performance is rated at 25°C

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