Modular Telecom Shelter Solutions

About Hai Nam

Hai Nam is a specialist in design, manufacture & provides services of Electrical switchboards, Prefabricated Module, Outdoor Shelter & Automation.
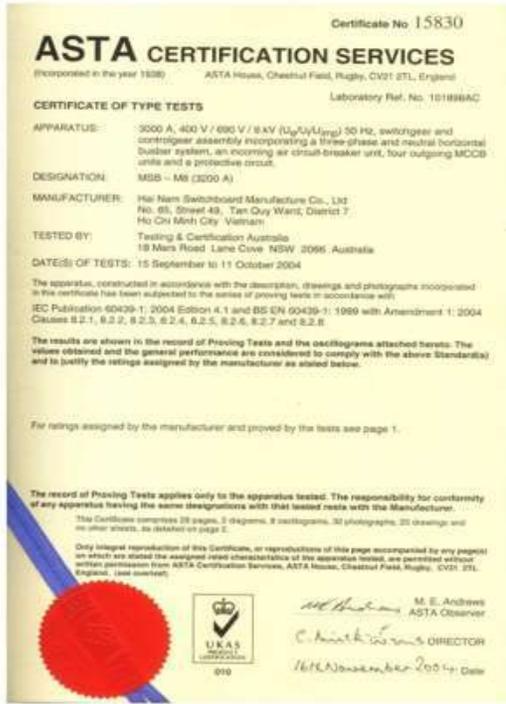
We found in 2002 in Southern HCMC, Vietnam, Hai Nam Switchboard Manufacturing Co., Ltd. now is located in 6,650 square meter facility with 03 lines of production machines. You, our clients are the life-blood of our Company and everything we do is directed toward exceeding your expectations. We promise to deliver on time, within budget and to specifications. Out engineer can give value engineering (VE) too.

We are a team of 200 people including 40 Engineers & Bachelor Holders. Many of whom have worked together for years. The success which the Company has achieved is based squarely on the body of knowledge, skill and expertise of its workforce.

Our quality is assured with Hai Nam's certification to SGS ISO 2001:2008. Moreover, we are the licensee of Blokset, a low voltage high dependability switchboard from Schneider Electric, & licensee of Simoprime, a medium voltage metal clad panels up to 24kV from Siemens. The world is coming flat now. We do not only export to regional country such as Laos, Cambodia, Myanmar but also in Japan, Australia, Russia, Bangladesh, Ukraine.

Hai Nam is justifiably proud of our products, and we strive to ensure that you have the solution you need. We are looking forward having a chance to works with you.

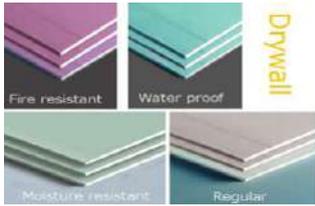# Hai Nam Certificate

Type Tests Certificate

Certificate No 15830

ASTA CERTIFICATION SERVICES

CERTIFICATE OF TYPE TESTS

ISO 9001:2015 Certificate

Hai Nam Switchboard Manufacture Co., Ltd.

ISO 9001:2015

Licensed partner (Schneider Electric)

Certificate — Licensed partner

Schneider Electric Industries states that

HAI NAM

Hai Nam Automation Technology JSC
LOT I-10-6, R. NO 7,
HIGH TECH PARK DISTRICT 9 HCMC
TELP : 02871099904
FAX : 028 7109 9947

Has been successfully audited on : 18-07-2018 and is therefore authorized to manufacture, assemble, test & sell the Blokset system in accordance with the technical specifications of Schneider Electric.

Life Is On | Schneider Electric

SIMOPRIME Technology Partner

SIEMENS

SIMOPRIME Technology Partner

Certificate

Siemens AG, hereby certifies that

Hai Nam Switchboard Manufacture C., Ltd.

Lot N. C32, Road No.9, Hiep Phuoc IP, Nha Be District
Ho Chi Minh City
Vietnam

is a SIMOPRIME Technology Partner.

siemens.com/technology-partner

Outdoor Shelter – Single Module

Environmental

Protection class	IP55 (*IP65 on request)
Impact Protection	IK10 (*other standard on request)
Ambient Operating Temperature	-5oC - +45oC
	(standard ETSI EN 300-019-1-1/119-2-1)
Storage Temperature	-5oC - +60oC
	(standard ETSI EN 300-019-1-2/119-2-2)
Transportation Temperature	-5oC - +60oC
	(standard ETSI EN 300-019-1-3/119-2-3)
Ambient RH	0 -95% (none condensing)
Other factor	Win load up to 150km/hr – Sea Salts

Mechanical structure

Construction	Modular-Dual wall c/w inner insulation
	(Double GA/EG steel layer 1.2mm & 0.5mm)
	19inch rail EIA standards.
Load	600kg.
Inner thermal insulation	XPS insulate – 25mm
	(0.028W/(m.K) @30kg/m3).
Surface	Powder coated >= 60um RAL7035
Dimensions	39U -2010H x 850W x 650D (mm)
	~155kg (not included equipment)
Locking	Mechanical lock theft proof lock 03- point
	(c/w key and protection cover)
Design life time	up to 20 years.

Electrical Distribution

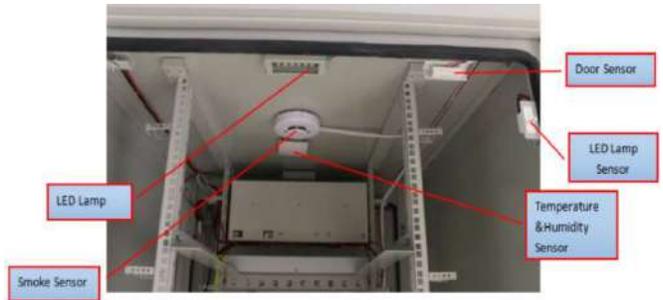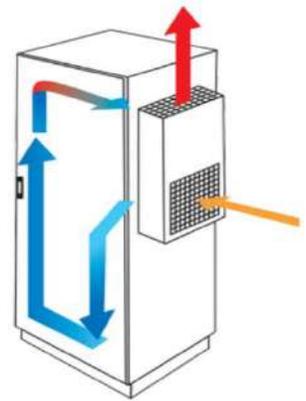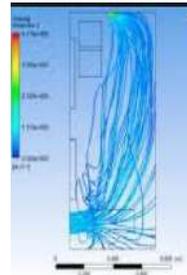|	
Input CB	02 pcs/ MCB 63A 2P 6kA/ c/w mechanical interlock.
Output CB	01 MCB 10A 2P 6kA
	(* DC CB is separate - Rectifier Equipment)
Fire protection	Automatic EPO (Smoke & heat combination).
LED Power Indicator	Yes.
Auxiliary	01pcs LED Lamp
	01pcs IP67 63A -230VAC 3PIN Socket
	01 pcs DIN Rail single socket Universal 10A.
	02 pcs grounding bar
	Fuse kit/wiring, cable management & accessories.

Standard	MCB/MCCB :	IEC 60898/IEC 60947-2
	Telecom grounding	QCVN9:2010/BTTTT
	Surge protection	IEC61643 class I and II
		QCVN 32-2011-BTTTT
		TCVN 8687-2011

Cabinet Thermal Control

Primary Cooling	48V DC Tel Air Conditioning
	Capacity range 300 - 4000Watt (on request)
Backup Cooling	48 DC Ventilation Fan
	Air flow 200 – 2500m3/hr (on request)
Optional	Heater/Heat Exchanger/EC Fan on request.

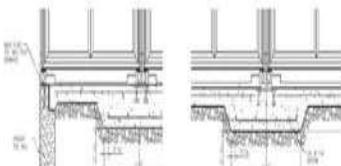## Environment sensor

Door Switch	01 set (Limiter Switch)
Smoke Sensor	01 set (Photoelectric smoke detector c/w relay output)
Air temperature	02 set (NTC wire sensor 0 -60oC
	(c/w temperature controller, accuracy 0.1oC)
Water leak/Flood sensor	01 set (Spot detector c/w Alarm relay board).
Environment Monitoring	Standard 16 DO (type Dry contact)
	Optional 16DI/8DO – Modbus RTU RS485/Modbus TCP

Other option

Modifications according to customer's requests /customer's integration are possible

OTHER INTERGRATED SOLUTION
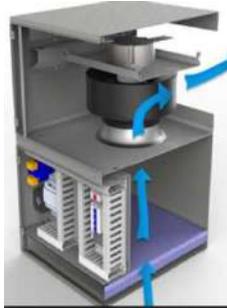
Solar & Wind turbine for BTS

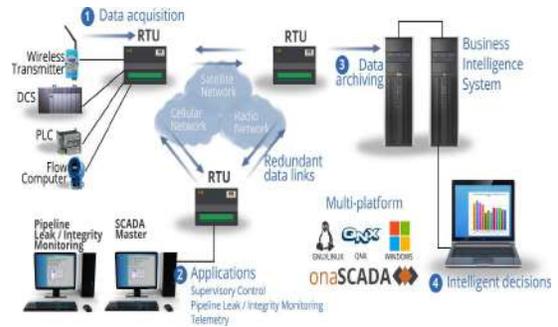**Telecom Rectifier & Battery**

Cabinet Thermal Control
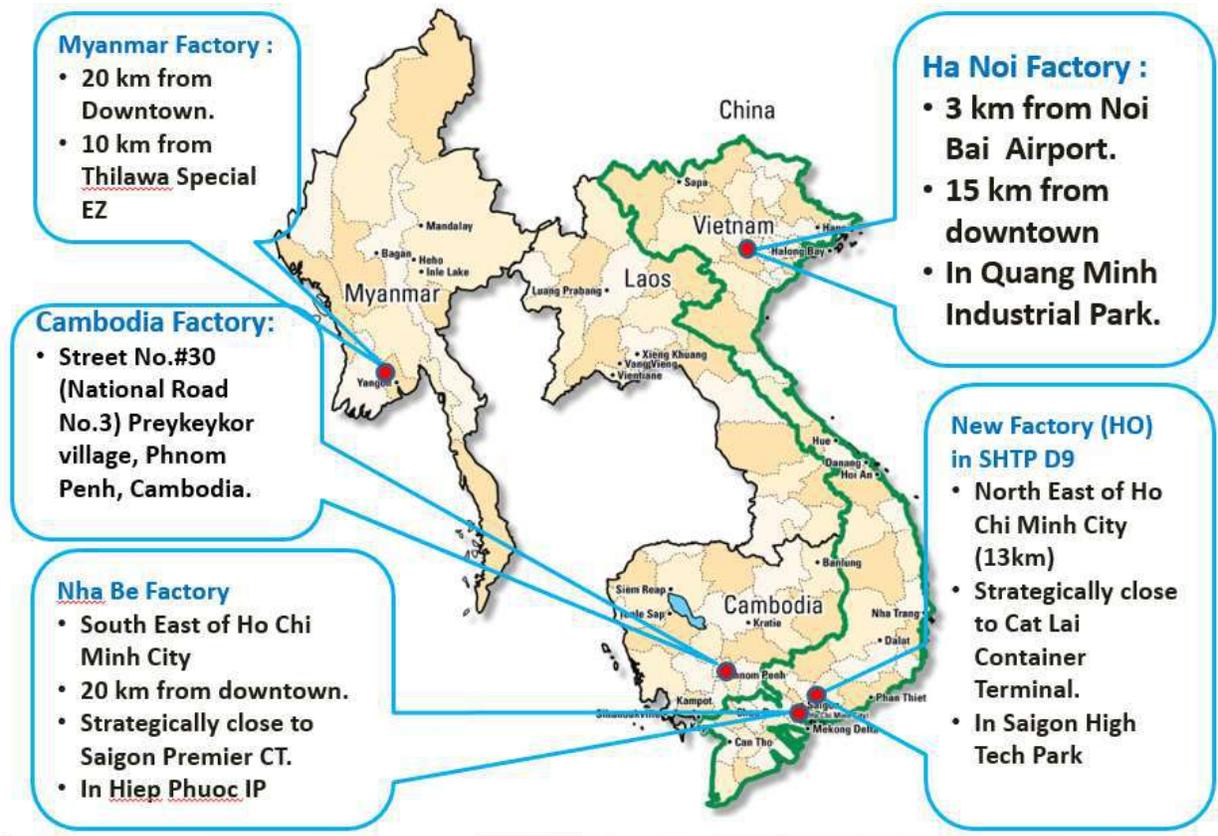
(Free Cooling/DC/AC Air Conditioning)

Control & Monitoring Device

Specific application: Stainless steel/Aluminum material, Low temperature/High corrosion … application

HẢI NAM LOCATION

Myanmar Factory :
- 20 km from Downtown.
- 10 km from Thilawa Special EZ

Cambodia Factory:
- Street No.#30 (National Road No.3) Preykeykor village, Phnom Penh, Cambodia.

Nha Be Factory
- South East of Ho Chi Minh City
- 20 km from downtown.
- Strategically close to Saigon Premier CT.
- In Hiep Phuoc IP

Ha Noi Factory :
- 3 km from Noi Bai Airport.
- 15 km from downtown
- In Quang Minh Industrial Park.

New Factory (HO) in SHTP D9
- North East of Ho Chi Minh City (13km)
- Strategically close to Cat Lai Container Terminal.
- In Saigon High Tech Park

China

Vietnam

Laos

Myanmar

Mandalay

Bagan · Heho · Inle Lake

Luang Prabang

Sapa

Halong Bay

Xieng Khuang
VangVieng
Vientiane

Hue

Danang
Hoi An

Banlung

Siem Reap

Tonle Sap

Cambodia
· Kratie

Nha Trang

Dalat

Phnom Penh

Kampot

Sihanoukville

Ho Chi Minh City
Mekong Delta

Phan Thiet

Can Tho

Yangon

Contact us

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