



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.

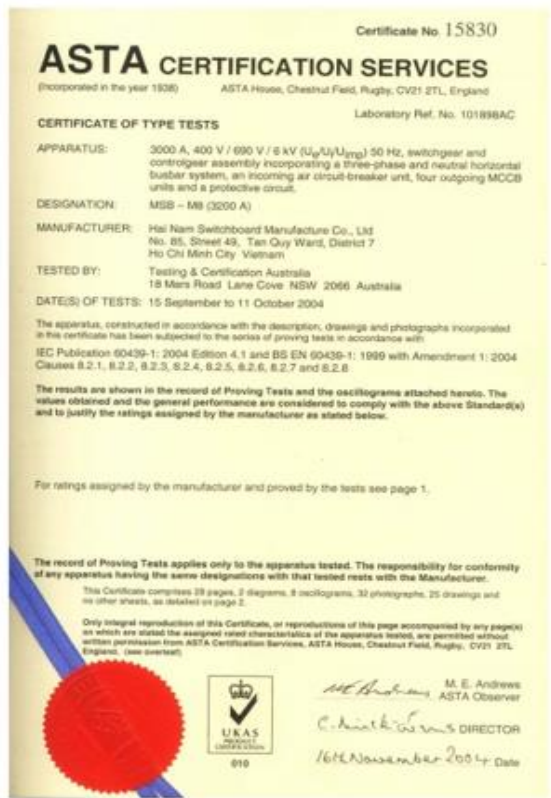
Founded in 2002 in Southern HCMC, Vietnam, Hai Nam Automation Technology JSC now has 05 factories in South East Asia with 03 lines of production machines with a team of 500 employees including both University Degree & Postgraduate, College Degree and In-House Trained Employees. The success which the 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. We are proud to be Schneider Electric's top trusted partner and strategic partners of Siemens, Mitsubishi, and Rockwell Automation. Our target markets include Asia-Pacific markets like Japan, Bangladesh, Australia, and European nations such as Russia, Ukraine, UK and finally, United States of American.

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



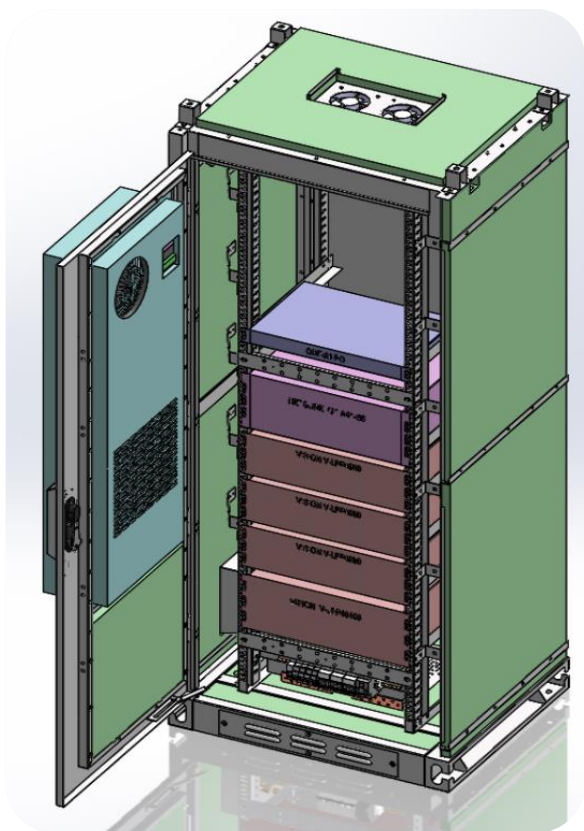
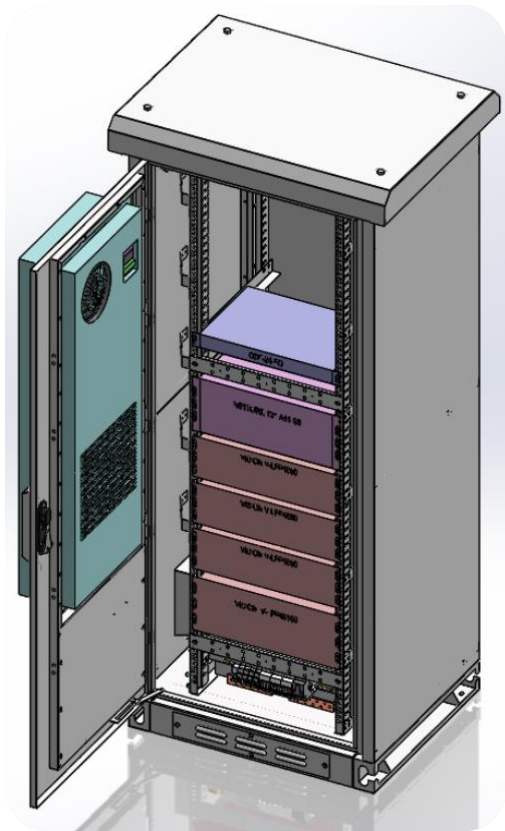
Type Tests Certificate



ISO 9001:2015 Certificate

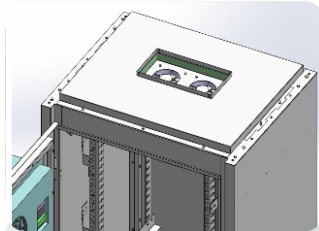


OUTDOOR SHELTER – SINGLE MODULE



ENVIRONMENTAL	
Protection class	: IP55 (as IEC 600529) /*IP65 on request
Impact Protection	: IK10 (*other standard on request)
Ambient Operating Temperature	: -5 ⁰ C - +45 ⁰ C (standard ETSI EN 300-019-1-1/119-2-1)
Storage Temperature	: -5 ⁰ C - +60 ⁰ C (standard ETSI EN 300-019-1-2/119-2-2)
Transportation Temperature	: -5 ⁰ C - +60 ⁰ C (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 $\geq 60\mu\text{m}$ 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	:	AC SPD, 02 pcs MCB 63A 2P 6kA/ c/w mechanical interlock.
Output CB	:	01 MCB 16A 6Ka; (* DC CB is separate - Rectifier Equipment)
Fire protection	:	Automatic EPO (Smoke & heat combination)
LED Power Indicator	:	Yes 01pcs LED Lamp 01pcs IP67 63A -230VAC 3PIN Socket
Auxiliary	:	01 pcs DIN Rail single socket Universal 10A 02 pcs grounding bar Fuse kit/wiring, cable gland, cable management & accessories.

STANDARD

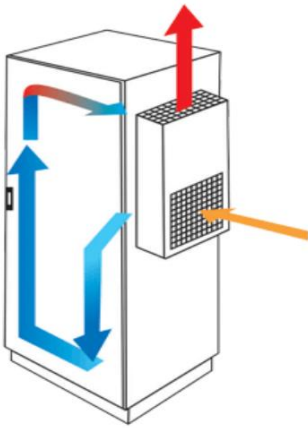
MCB/ MCCB	:	IEC 60898/IEC 60947-2
Telecom grounding	:	QCVN9:2010/BTTTT IEC61643 class I and II;
Surge protection	:	QCVN 32-2011-BTTTT; TCVN 8687-2011

SIEMENS

Schneider
Electric

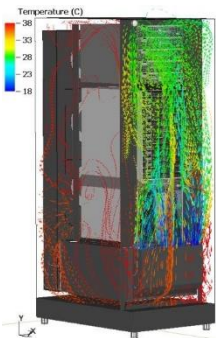
Nader 良信电器
Expert of High-end LV electrical system solutions





CABINET THERMAL CONTROL

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



Code	Expans	Setting range (min)	Factory setting value
P0	Temperature alarm	0-120°C	2°C
P1	Backdoor setting	120-180°C	120°C
P2	Temperature protection	0-120°C	120°C
P3	Display unit	0-120°C	120°C
P4	High temperature alarm	0-120°C	120°C



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 -600C) (c/w temperature controller, accuracy 0.10C)
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 INTEGRATED SOLUTION

SOLAR & WIND TURBINE FOR BTS

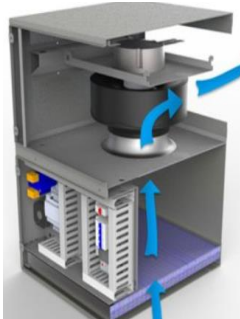


TELECOM RECTIFIER & BATTERY

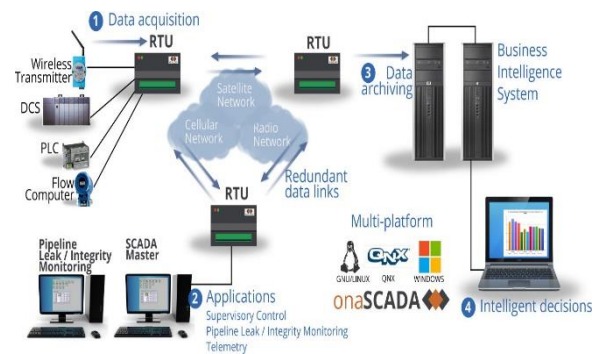


CABINET THERMAL CONTROL

(Free Cooling/DC/AC Air Conditioning)



CONTROL & MONITORING DEVICE



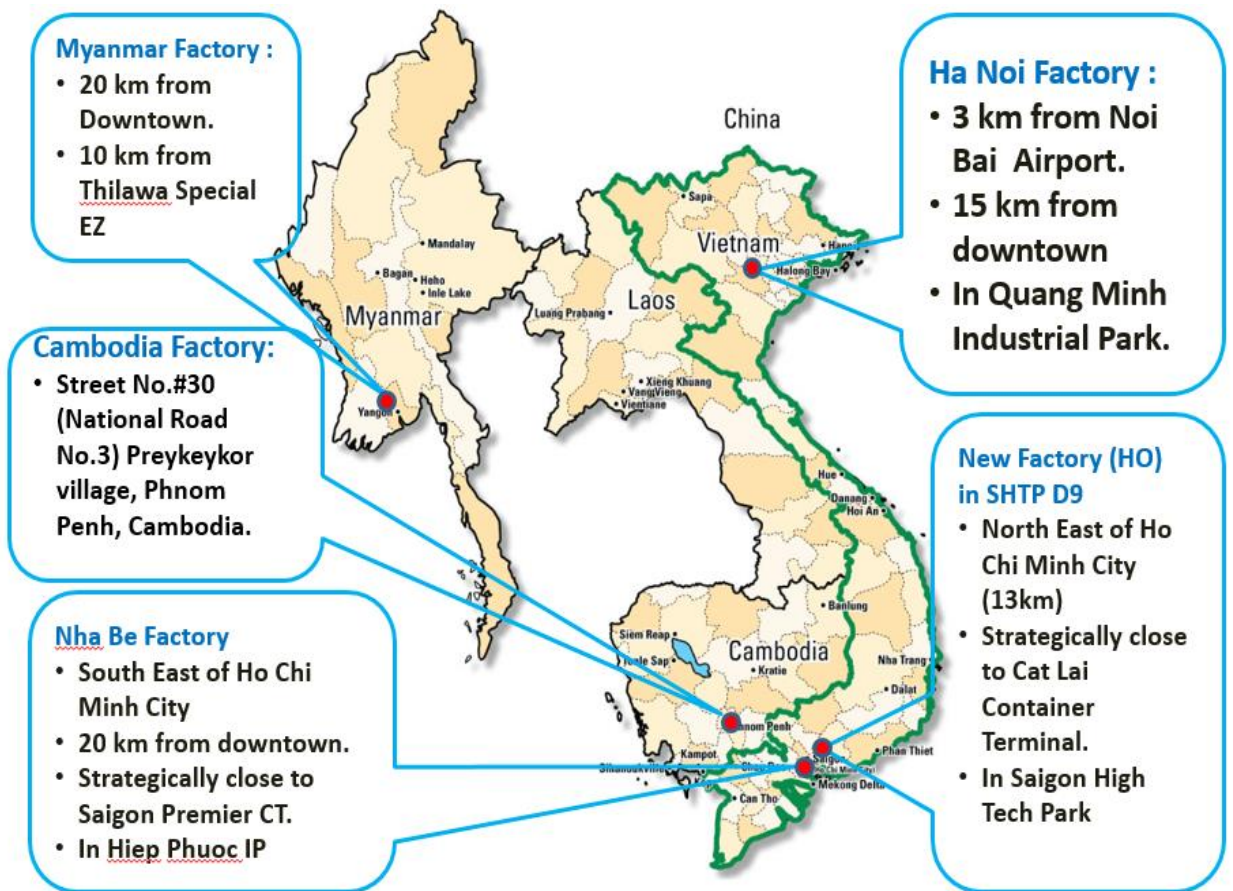
SPECIFIC APPLICATION:

Stainless steel/Aluminum material

And Low temperature/High corrosion ... application



HAI NAM LOCATION



HAI NAM – WE MAKE THE DIFFERENCES

CORE VALUES

To be transparent, long-term cooperated, and mutual beneficial.

To commit fulfilling the social responsibility.

To focus on product quality, customer services, and technical improvement.



CONTACT US

HAI NAM AUTOMATION TECHNOLOGY JSC

Add: Lot I-10-6 Road No.D7, Hi-Tech Park, Long Thanh My Ward, Dist.9, HCMC, Vietnam.
Tel: (+84)28 7109 9904
Fax: (+84)28 7109 9905
Email: hainam-panel@hainamswitchboards.com

NHA BE FACTORY

Add: Lot C 32, Rd. No. 9, Hiep Phuoc IP, Nha Be Dist, HCMC, Vietnam
Tel: (+84)28 3873 4066
Fax: (+84)28 3873 4067
Email: hainam-panel@hainamswitchboards.com

HA NOI FACTORY

Add: Lot No.45, Quang Minh IP, Me Linh Dist, Hanoi, Vietnam
Tel: (+84)24 3813 3011
Fax: (+84)24 3813 3010
Email: hainam-panel@hainamswitchboards.com

MYANMAR FACTORY

Add: Ka Naung Min Thar Gyi Street, Plot No. 56 Thilawa Local Industrial Zone, Kyauk Tan Township, Yangon, Myanmar
Tel: (+95) 562 3177
(+95) 9253 247 697 (Myanmar)
(+84) 948 676 068 (Vietnam)
Email: hainam-panel@hainamswitchboards.com

CAMBODIA FACTORY

Add: Street #30m (National Road #3), PreyKeyKor Village, PongToek Commune, DangKor Dist., Phnom Penh City, Kingdom of Cambodia
Tel: (+855)81 200 572
(+855)81 200 578
Email: hainam-panel@hainamswitchboards.com

WE MAKE THE DIFFERENCES