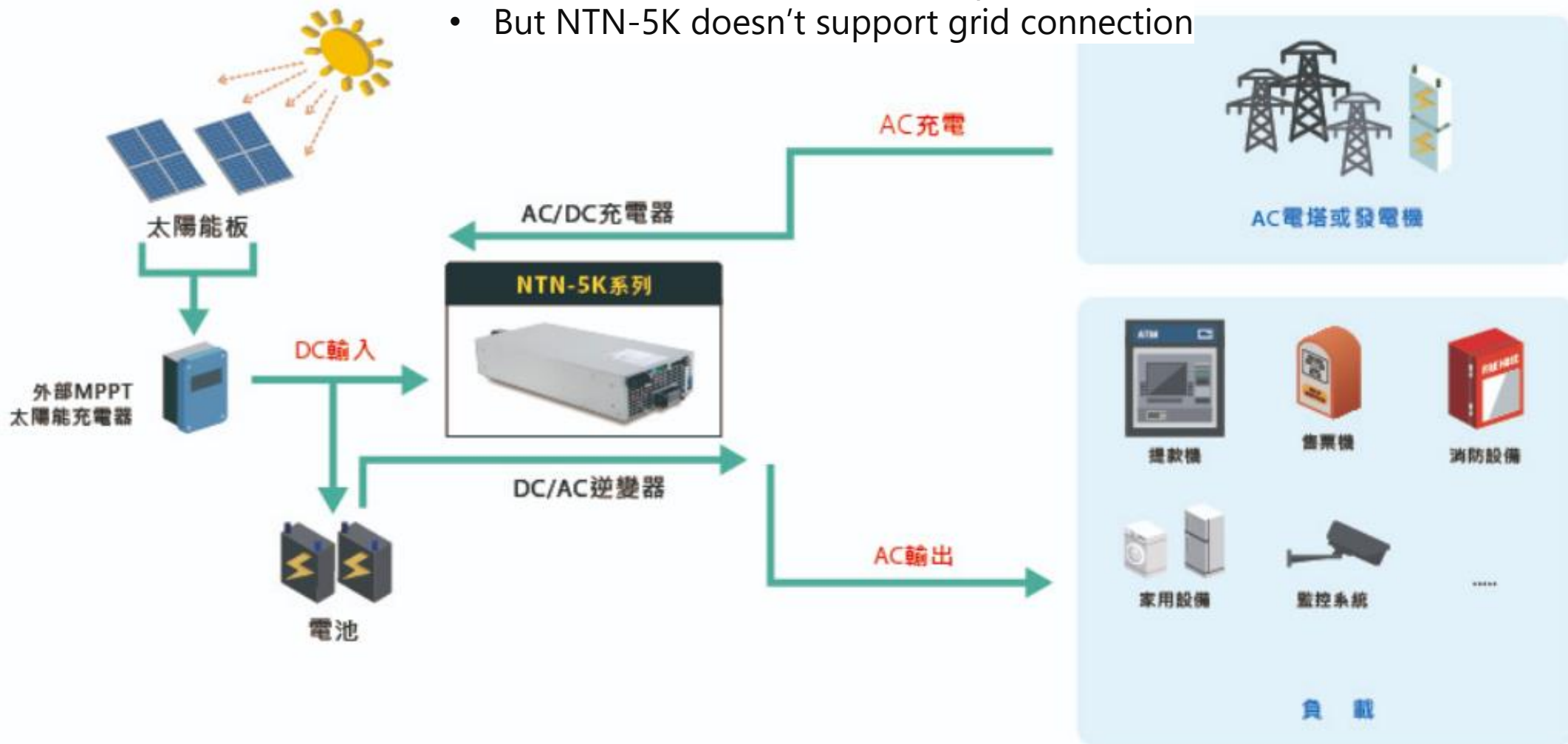


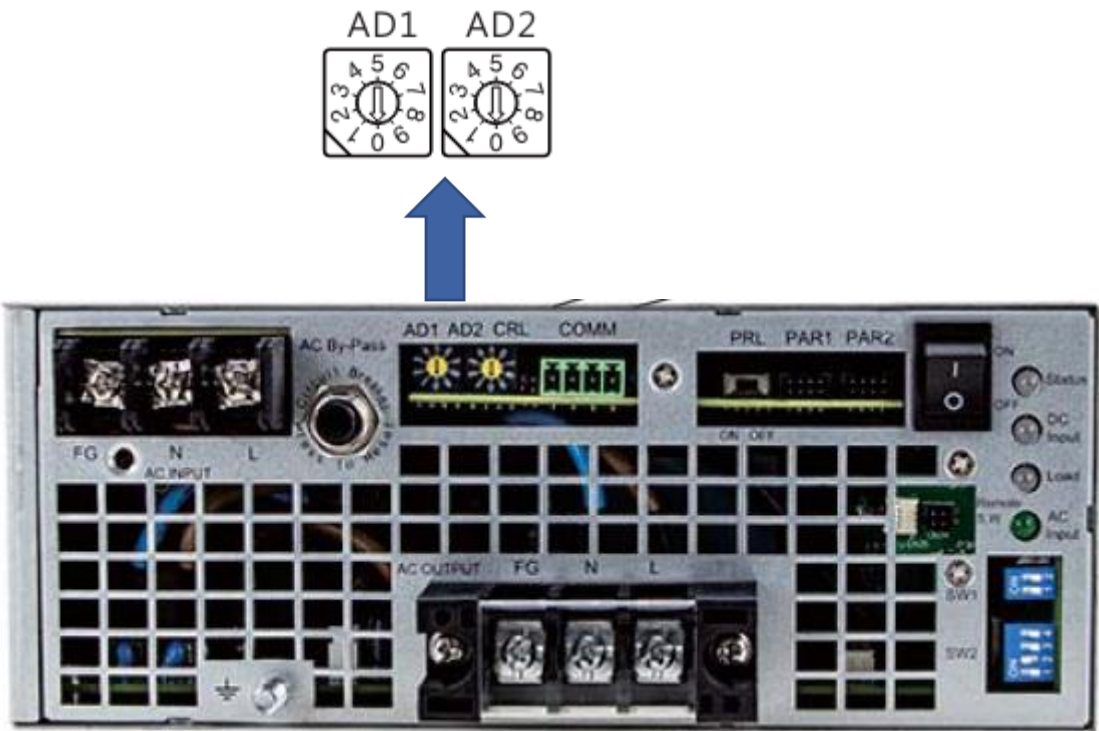
NTN-5K series

- NTN-5K has charger function (NTS/NTU doesn't have).
- Unlike BIC, NTN-5K can operate independently even in AC cut off status.
- NTN-5K can be paralleled connection, the sync operation up to 30KWs (5+1 units)
- NTN-5K can be used for three-phase AC
- But NTN-5K doesn't support grid connection



NTN-5K series

Using in communication, NTN-5K must be configured with a unique and non-repeating device ID, with a maximum of 64 IDs assignable



設備編碼	開關位置	
	AD1	AD2
0	0	0
1	0	1
2	0	2
3	0	3
4	0	4
5	0	5
6	0	6
7	0	7
8	0	8
9	0	9
10	1	0
11	1	1
⋮		
50	5	0
57	5	7
58	5	8
59	5	9
60	6	0
61	6	1
62	6	2
63	6	3

NTN-5K series

Output voltage, frequency, save-mode setup

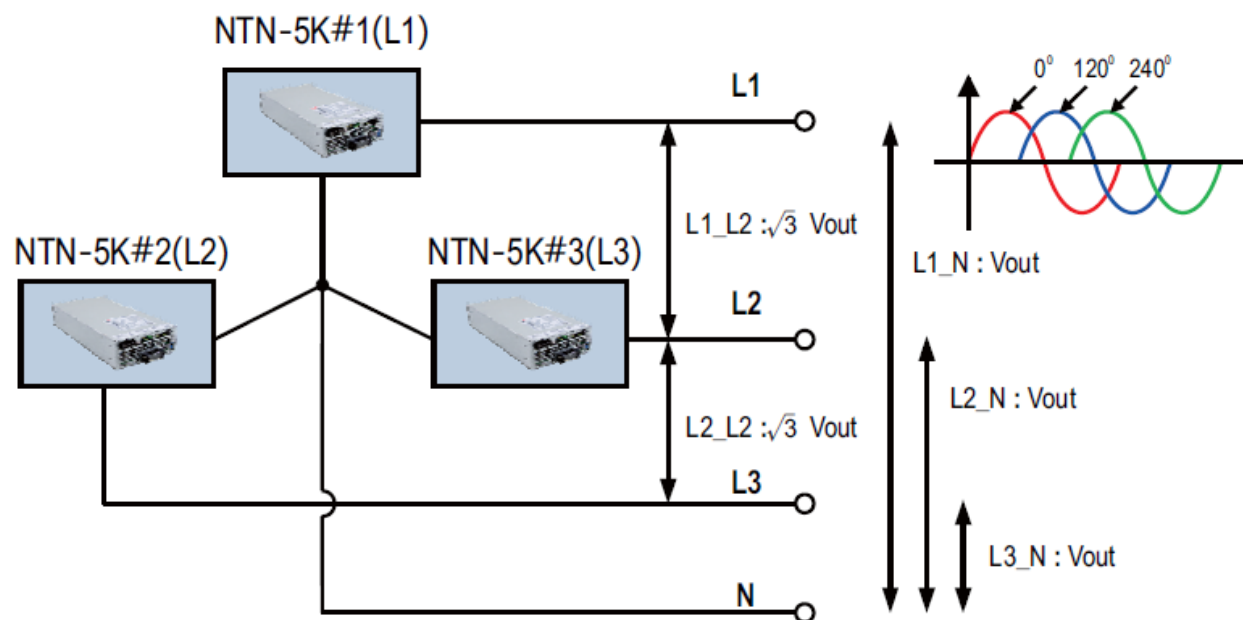


透過開關選擇AC輸出電壓、頻率、省電模式			
S1	S2	S3	S4
OFF	OFF: 100Vac or 200Vac	ON : 50Hz	ON : 省電模式
OFF	ON : 110Vac or 220Vac		
ON	OFF: 115Vac or 230Vac	OFF: 60Hz	OFF: 非省電模式
ON	ON : 120Vac or 240Vac		

condition	status
<10W 3s	standby
>25W	ON

NTN-5K series

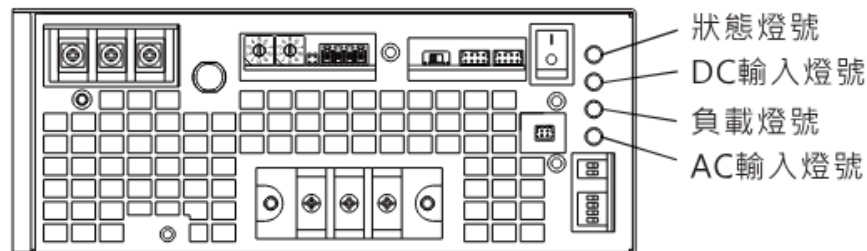
3Ø4W setup



S1	S2	AC output phase
OFF	OFF	L1, 0°
OFF	ON	L2, +120°
ON	OFF	L3, +240°

NTN-5K series

LED indicators

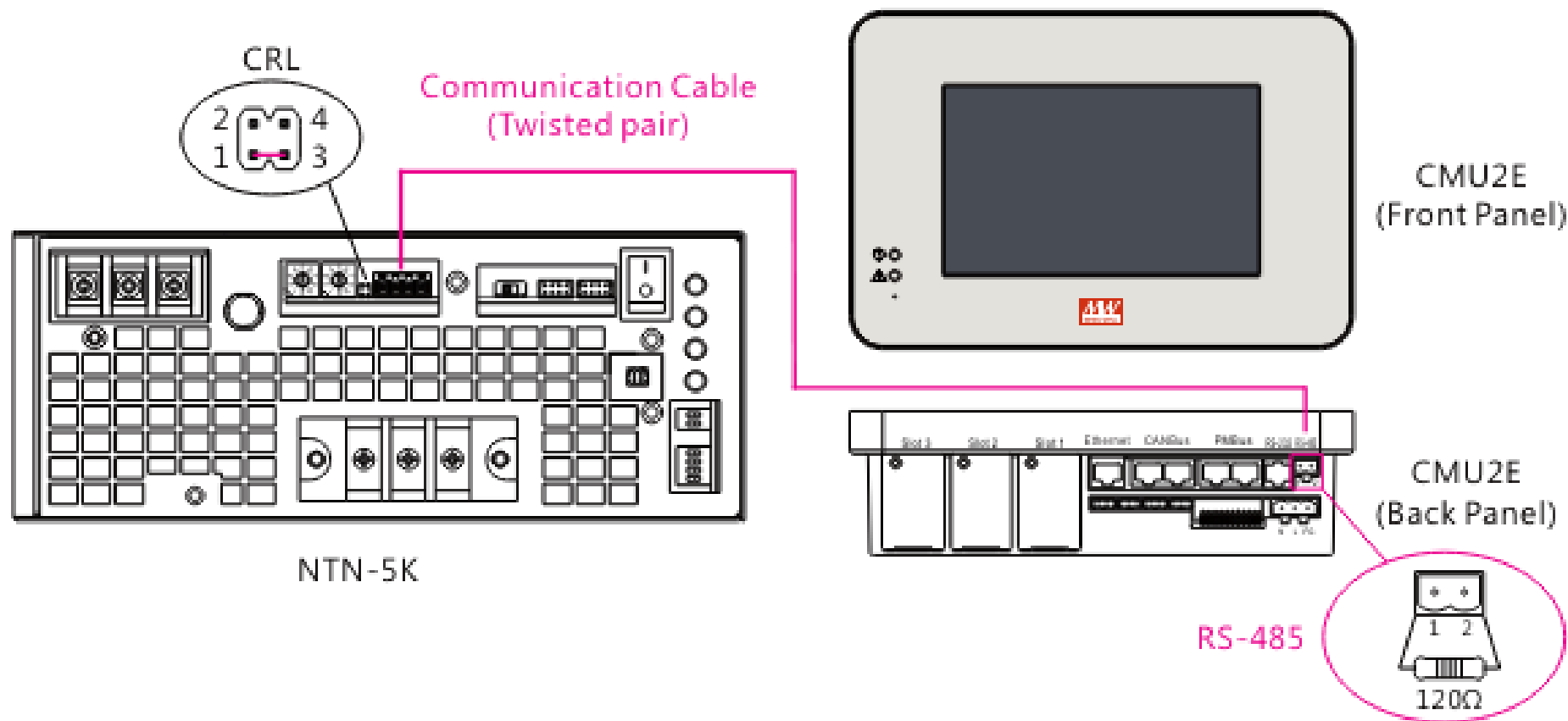


Fault signals

故障燈號	可能引起原因	建議解除方式
Status  DC Input  Load 	過載保護	檢查負載是否超過額定值或負載瞬間需要過大啟動電流，如電感或是電容性設備，解除異常後，單體自動回復。
	短路保護	檢查負載是否超過額定值或短路解除異常後，單體自動回復。
Status  DC Input  Load 	電池老化或故障	更新電池
	電池搭配錯誤	檢查電池電壓是否符合逆變器之規格
Status  DC Input  Load 	過溫保護	檢查散熱通風口是否通暢。如是室溫過高，請降載使用或降低環境溫度，解除異常後，可自動重啟。
Status  DC Input  Load 	其他異常 (例: 風扇鎖死)	請退回原廠維修

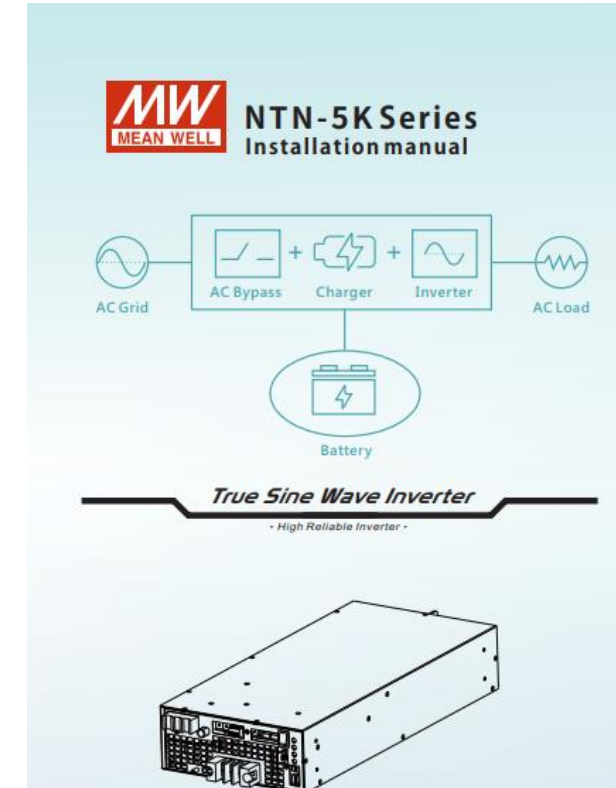
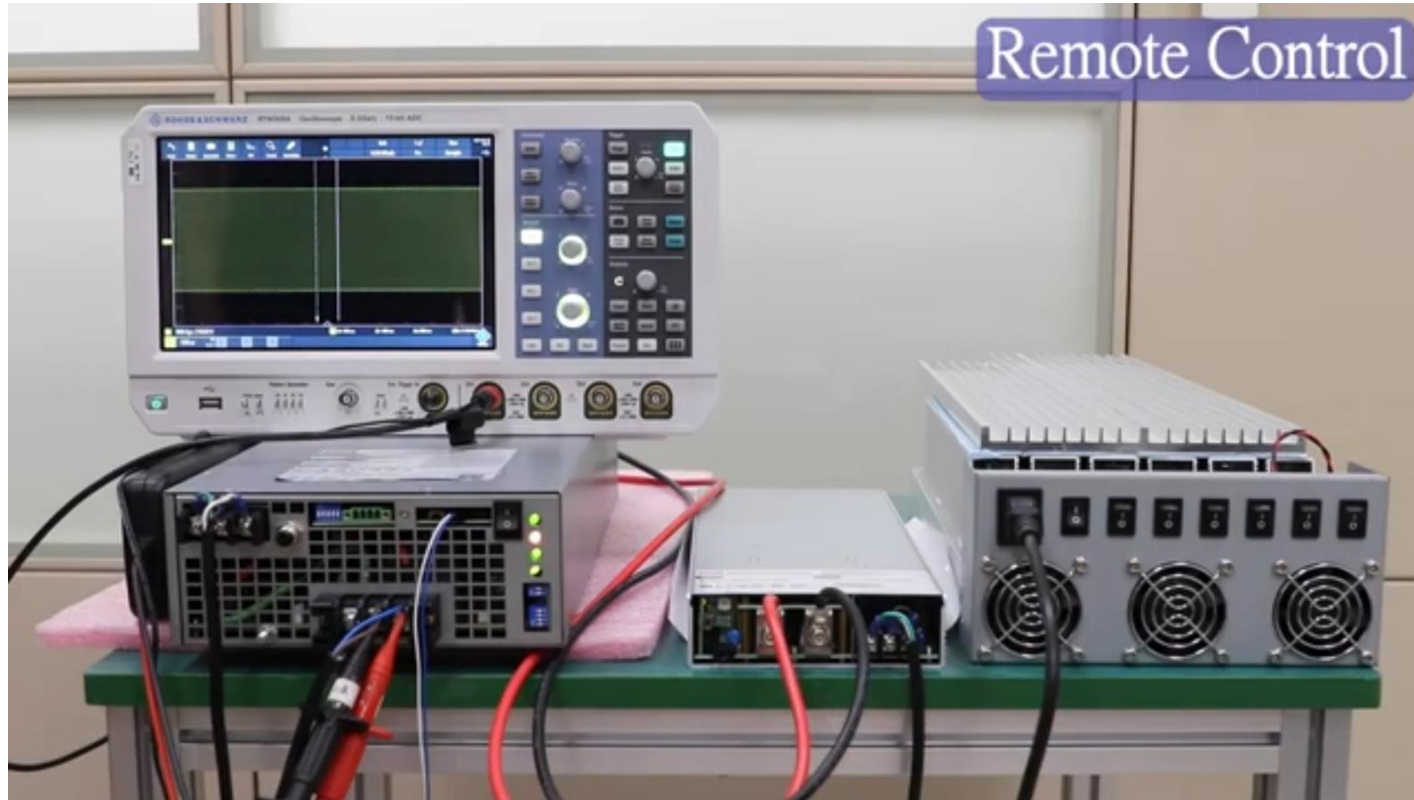
NTN-5K series

Configuration with CMU2E



NTN-5K series

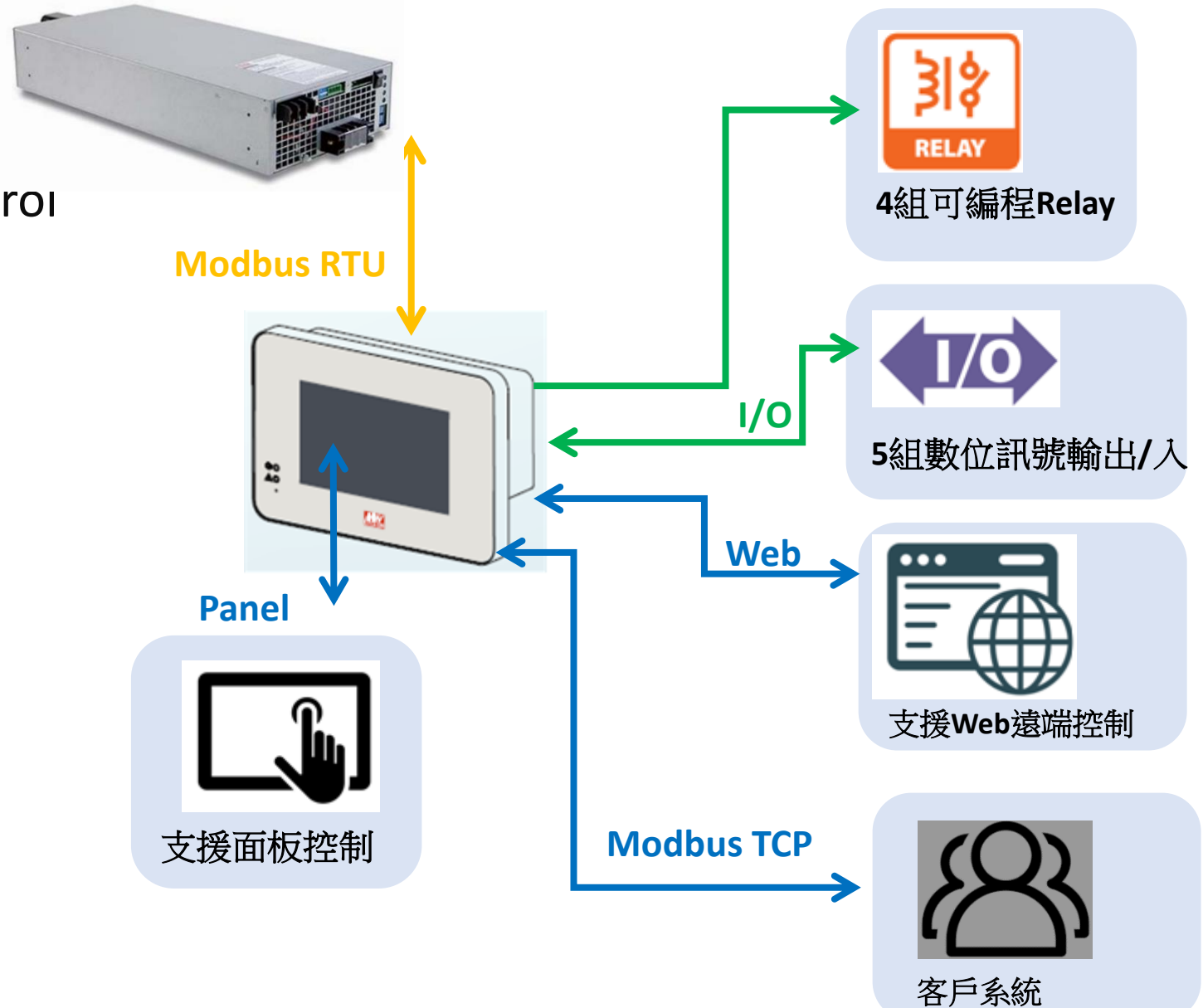
Check [VIDEO](#) & [USER MANUAL](#) for more information



CMU2E: the GUI controller for NTN-5K

CMU2E features

- Performing monitoring and control tasks for the system
- Supporting programmable relay, digital I/O, Web interface, and Modbus TCP functionalities
- Supporting inverters: NTN-5K series



 Home
 Status
 Setting
 Log
 Info



On / Off



By pass mode

On / Off

CMU2E Inverter Management

SD 2023/07/10 14:55

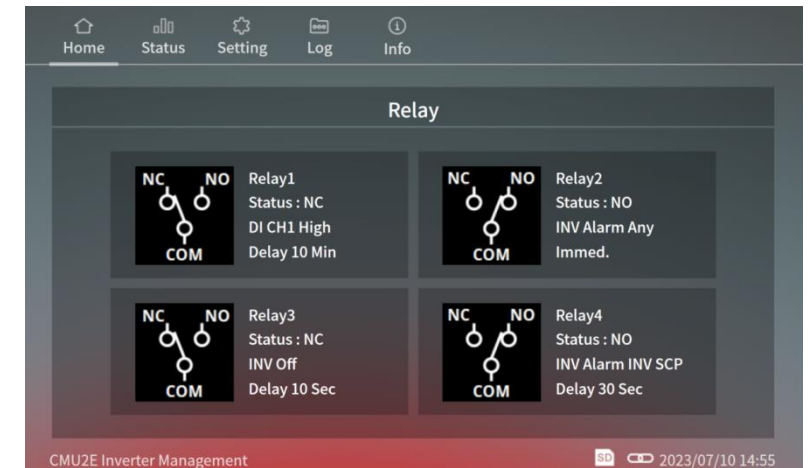
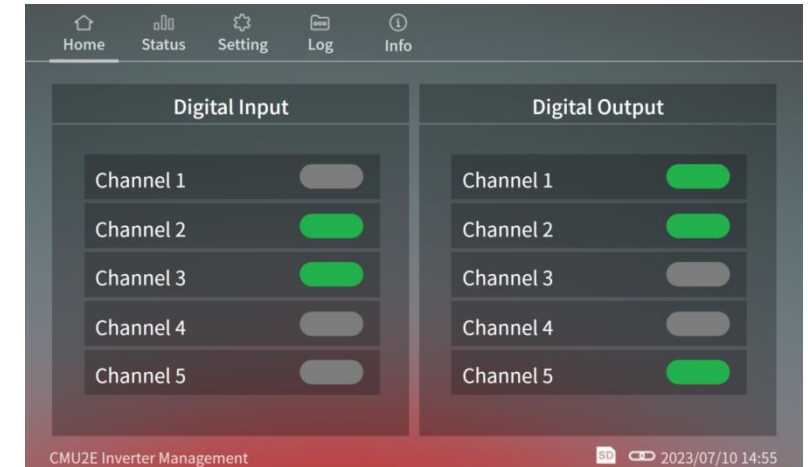
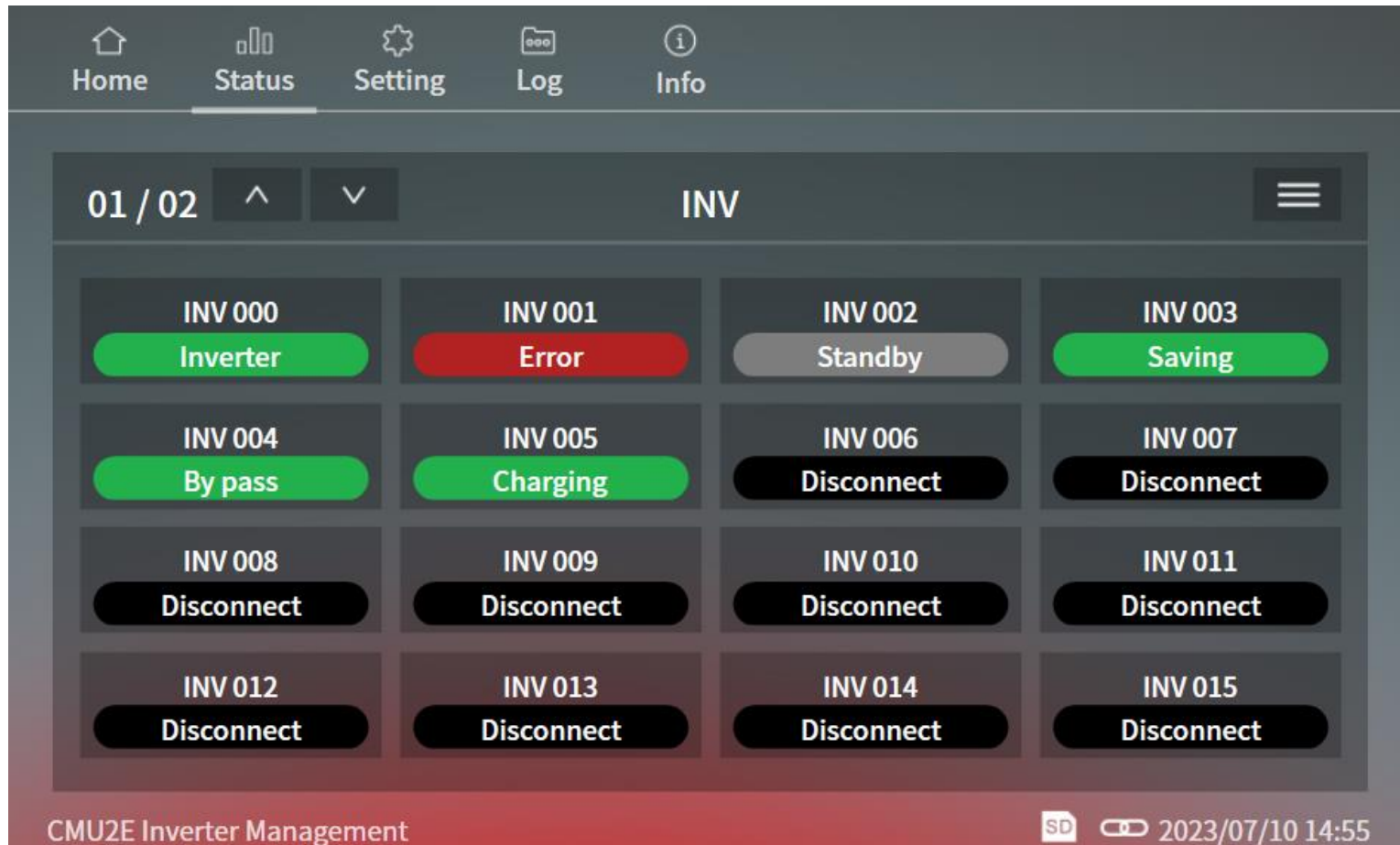
details



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CMU2E: function

Status



CMU2E: function

Setting



1XX: 100Vac/110Vac/115Vac/120Vac, 50Hz/60Hz

2XX: 200Vac/220Vac/230Vac/240Vac, 50Hz/60Hz

CMU2E: function

Setting

Inverter function settings

Home Status Setting Log Info

Model:NTN-5K-224

Battery alarm	44.0	V	AC mode charger enabled	☐
Battery shut down	40.0	V	Grid-tied power feeding	☐
Battery recharge	38.8	V	Output priority setting	Utility
Battery capacity	400	AH	Charging priority setting	Utility

Apply

CMU2E Inverter Management SD 2023/07/10 14:55

AC mode charger enabled:

in Bypass mode, to activate charging function or not

Grid-tied power Feeding:

To activate grid-tied power feeding function or not

(Not supported in NTN-5K)

Output priority setting:

Utility: Operating in UPS mode

Battery: Operating in energy-saving mode

Charging priority setting:

Utility: Prioritizing the use of grid power for battery charging

Solar: Prioritizing the use of solar power for battery charging. (Not supported in NTN-5K)

CMU2E: function

Log

If there is an abnormality on NTN-5K, users can view the event log file

Home

Status

Setting

Log

Info

1 / 45

^

v

INV Data Log

<

>

2019/10/10

T

No.	Time	Voltage	Current	PSU 000	PSU 001
1	13:45:27	47.5 V	134.0 A	67.0 A	67.0 A
2	13:46:00	47.5 V	134.0 A	67.0 A	67.0 A
3	13:47:00	47.5 V	134.0 A	67.0 A	67.0 A
4	13:48:00	47.5 V	67.0 A	--	67.0 A
5	13:49:00	47.5 V	67.0 A	67.0 A	67.0 A
6	13:50:00	47.5 V	67.0 A	67.0 A	--
7	13:51:00	47.5 V	134.0 A	67.0 A	67.0 A
8					

CMU2E Inverter Management

SD

2023/07/10 14:55

Home

Status

Setting

Log

Info

1 / 1000

^

v

Event Log

2019/12

T

No.	Device	Event	Date & Time
1	INV 001	OLP 115% Remove	12/31 12:25:12
2	INV 001	OLP 115%	12/31 12:24:55
3	INV 001	OTP Remove	12/31 12:24:03
4	INV 001	OTP	12/31 12:23:31
5	INV 001	SCP Remove	12/31 12:22:51
6	INV 001	SCP	12/31 12:20:36
7			
8			

CMU2E Inverter Management

SD

2023/07/10 14:55

CMU2E: function

Web



CMU2E Inverter Management

MEAN WELL ENTERPRISES CO., LTD.

HOME STATUS SETTING LOG SYSTEM

HOME

Overview

Number of INV	06 Unit	Mode	Inverter	Battery Voltage	47.70 V
Input Voltage	220 VAC	220 VAC	220 VAC	Battery Level	100 %
Input Frequency	60.0 Hz	60.0 Hz	60.0 Hz	Battery Time Left	0.0 H
Output Voltage	220 VAC	220 VAC	220 VAC		
Output Frequency	59.9 Hz	59.9 Hz	59.9 Hz		
Output Current	45 A	45 A	45 A		
Load Percentage	0 %				

Information

SYSTEM

Ver. 0.4

SLOT 1 - X

EMPTY

SLOT 2 - X

EMPTY

COMM.

Ver. 1.0

SLOT 3 - X

EMPTY

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CMU2E: function

Web

CMU2E Inverter Management

MEAN WELL ENTERPRISES CO., LTD.

SETTING

> Charger Mode

> Digital / Relay

> Misc.

Digital Output

	SOURCE	TRIGGER	ACTIVE	DELAY
CHANNEL 1	INV Alarm ▾	Any ▾	High ▾	Immed. ▾
CHANNEL 2	INV Alarm ▾	Any ▾	High ▾	Immed. ▾
CHANNEL 3	INV Alarm ▾	Any ▾	High ▾	Immed. ▾
CHANNEL 4	INV Alarm ▾	Any ▾	High ▾	Immed. ▾
CHANNEL 5	INV Alarm ▾	Any ▾	High ▾	Immed. ▾

APPLY

Relay

	SOURCE	TRIGGER	DELAY
RELAY 1	INV Alarm ▾	Any ▾	Immed. ▾
RELAY 2	INV ▾	On ▾	Immed. ▾
RELAY 3	DI CH1 ▾	High ▾	Immed. ▾
RELAY 4	DI CH5 ▾	High ▾	Immed. ▾

APPLY

CMU2E Inverter Management

MEAN WELL ENTERPRISES CO., LTD.

HOME STATUS **SETTING** LOG SYSTEM

SETTING

> Charger Mode

> Digital / Relay

> Misc.

Battery Setting

Battery Alarm

39.6 V 44.0 V 50.0 V

- +

Battery Shutdown

38.8 V 40.0 V 48.0 V

- +

Battery Recharge

38.8 V 38.8 V 55.2 V

- +

Battery Capacity

0 AH 0 AH 9999 AH

- +

APPLY

System Operation

INV On/Off

☒

Inverter Operation

AC Mode Charger Enable

☒

Grid-tied Power Feeding

☐

Inverter Mode

Output Frequency

50 Hz ▾

Output Voltage

200 VAC ▾

APPLY

Priority Setting

Output Priority Setting

Utility ▾

Charging Priority Setting

Select ▾

APPLY

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Green technology potential application



E-Vehicles

- E-scooter /E-bike
- Golf cart
- Scooter / wheelbarrow
- AGV
- Robot

Charging equipment

- Charging pile
- Home energy storage



Off-grid power supply

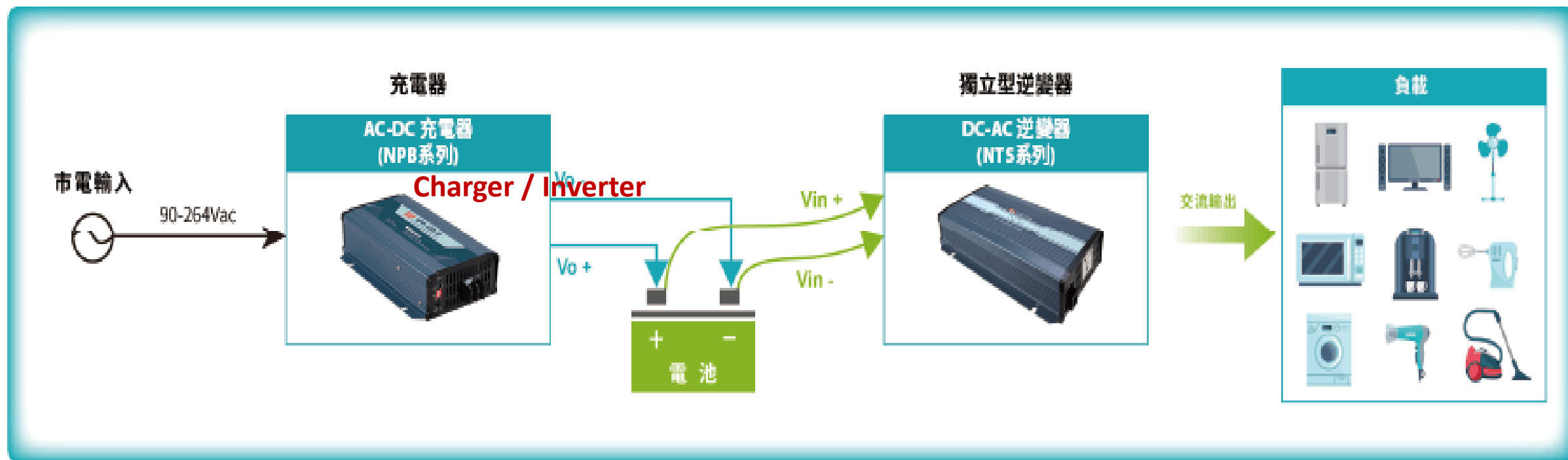
- Detached house
- Vehicles (camping van, fire truck 、RV trailer 、engineering vehicles...)
- yacht
- Medical (medical cart 、ambulance...)
- mobile energy storage



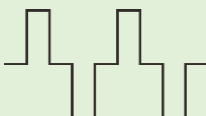
Power outage backup

- Security/fire protection UPS
- UPS for using in factory/office/home
- Elevator UPS

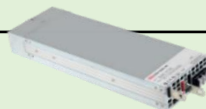
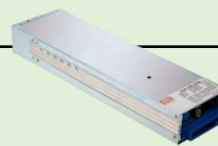
Family products-Charger / Inverter



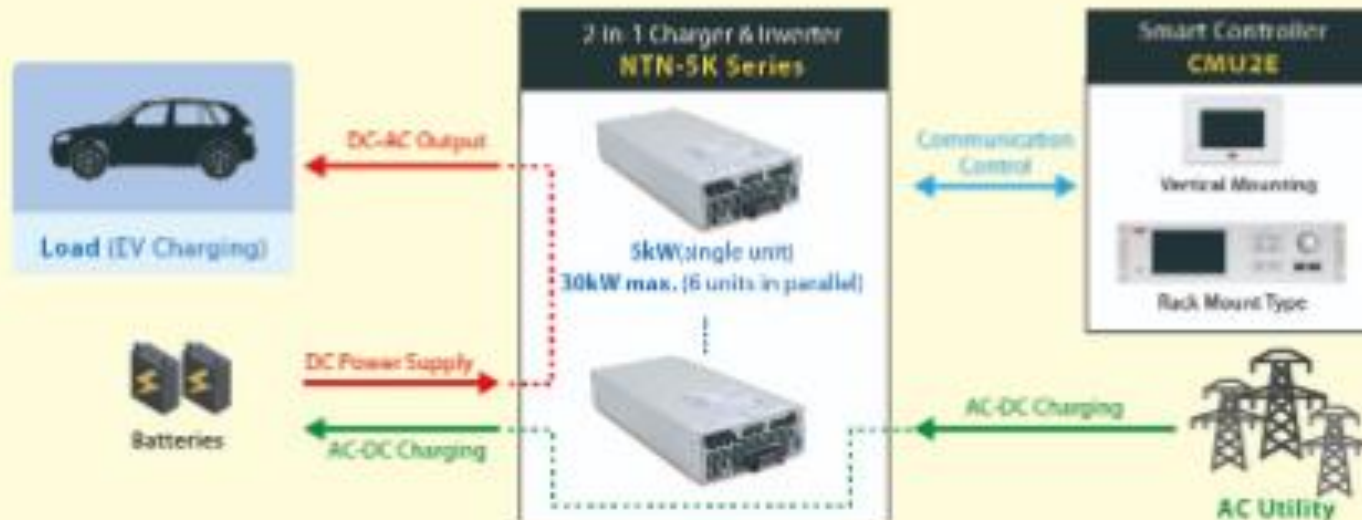
Inverter road map

		series	warranty
True sine wave 		TN series: DC-AC + charger + AC bypass (UPS) 1500/ 3000W	3 yrs
		NTS series DC-AC 250/ 300/ 400/ 450/ 750/ 1200/ 1700/ 2200/ 3200W NTU series DC-AC + AC bypass (UPS) 1200/ 1700/ 2200/ 3200W	
		NTN series DC-AC+ charger+ AC bypass (UPS) + AC output parallel connection upto 30KW (5+1 pcs) NTN-5K series 5000W	5 yrs
Square sine wave 		A301/A302 series DC-AC 100/ 150/ 300/ 600/ 1000/ 1700/ 2500W	1 yrs

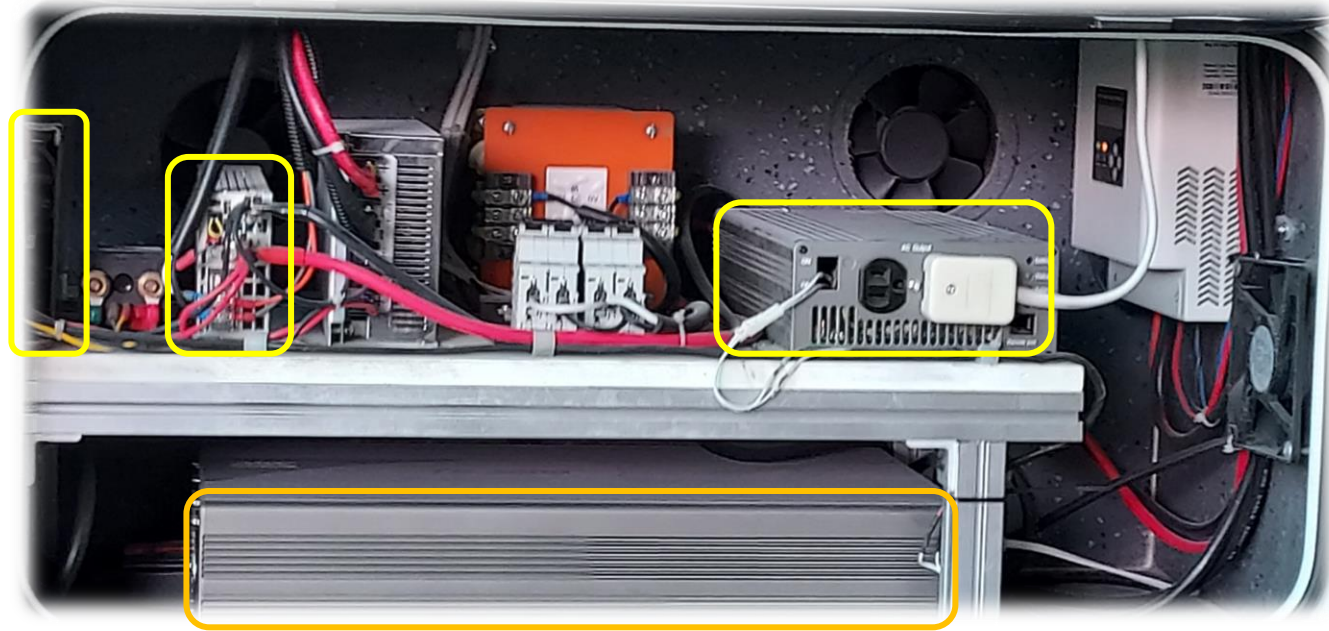
Charger road map

			series	warranty	remark
Portable	Desktop		ENP/ENC series 120/ 180/ 240/ 360W	3 yrs	programable
	Adapter type		GC series 330W	2 yrs	fixed voltage
			NPB series 120/ 240/ 360W	3 yrs	2/3 stage 、Vo/Io adjustable (NPB-120~360)
stationary	Screw mounted		NPB/NPP series 450/ 750/ 1200/ 1700W	3 yrs	NPB: built-in CANBus charging setup via NFC (NPB-450-NFC) NPP: 2-in-1 (PSU+ charger)
			RPB/DBU series 1600/ 3200W	5 yrs	programable
			HEP series 600/ 1000W	6 yrs	1. Programable 2. Suitable for harsh environment
			RCB/DBR series 1600/ 3200W	5 yrs	1. Programable 2. Rack, hot-swop
	Rack mounted				

Application case- NTN-5K+ CMU2E on EV charging



Application case- charger+ inverter + D/D on camping van



RPB-1600-48 → charge to 48V batt → **TS-700/3000-148** → microwave 、 refrigerator 、 air conditioner...



SD-1000-48 48V step down to 12V → cigarette lighting, flushing motor

Application case- inverter on camping van



Application case- charger + inverter + controller on modifying camping van work



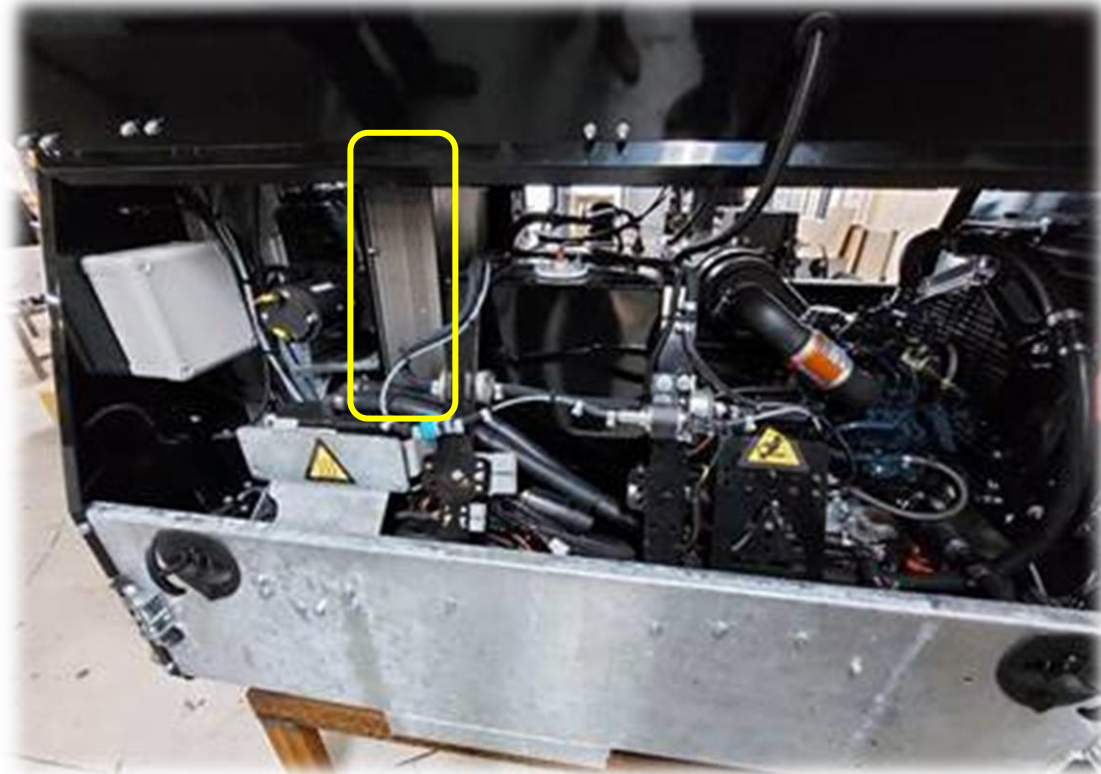
IRC2-B

NPB-750-12

NTS-2200-112



Application case- charger+ inverter + LED driver on light tower trailer

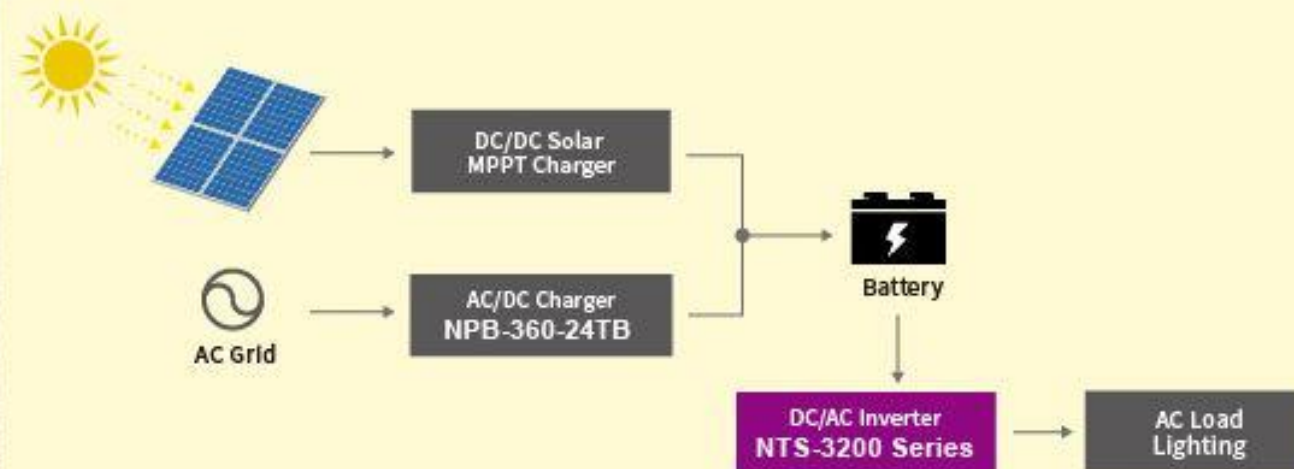


<https://youtu.be/YSgDAuI2Bi4>

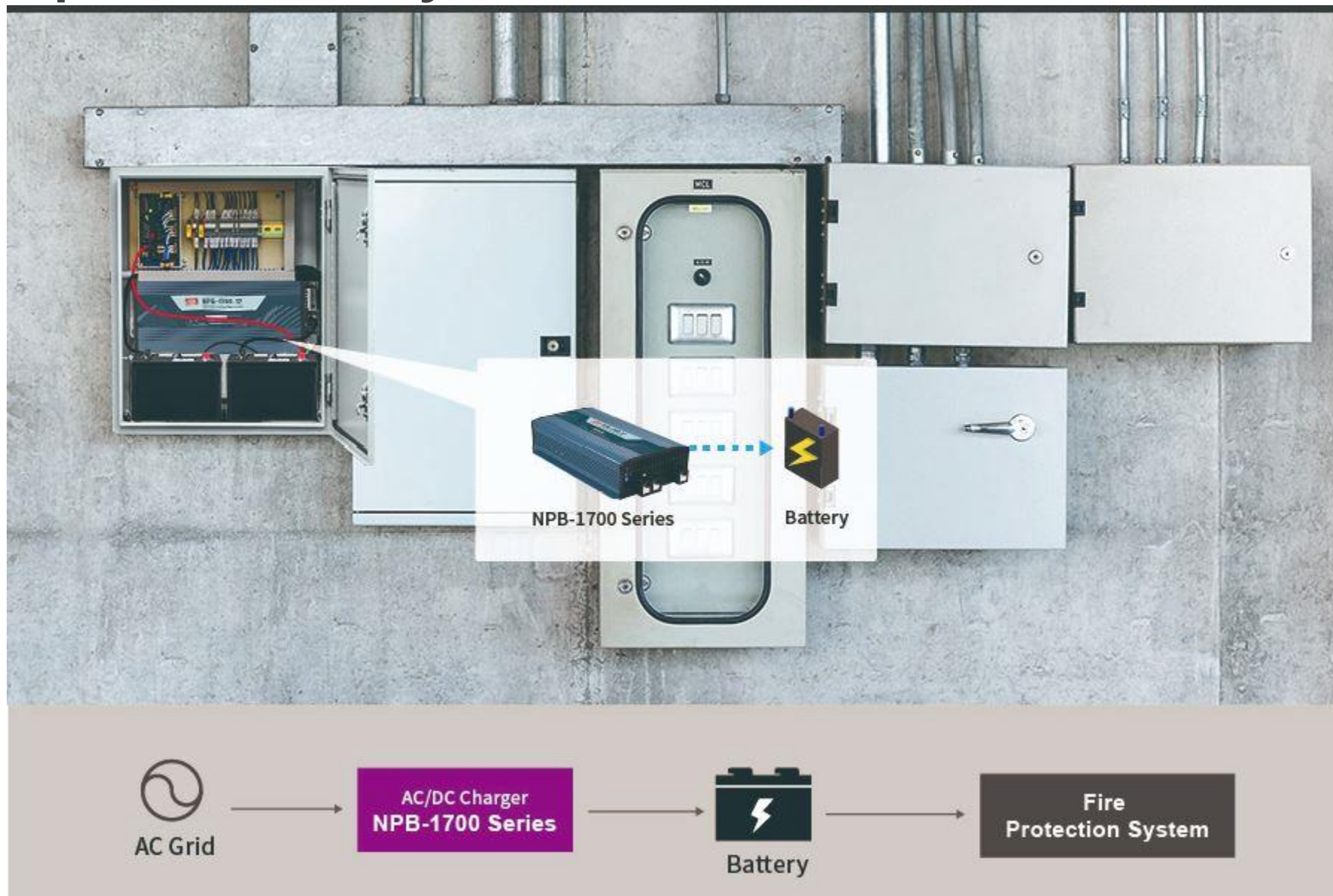
NPB-360-24 → charger to 24V batt → **TS-3000-224B** → **HLG-320** → LED lights



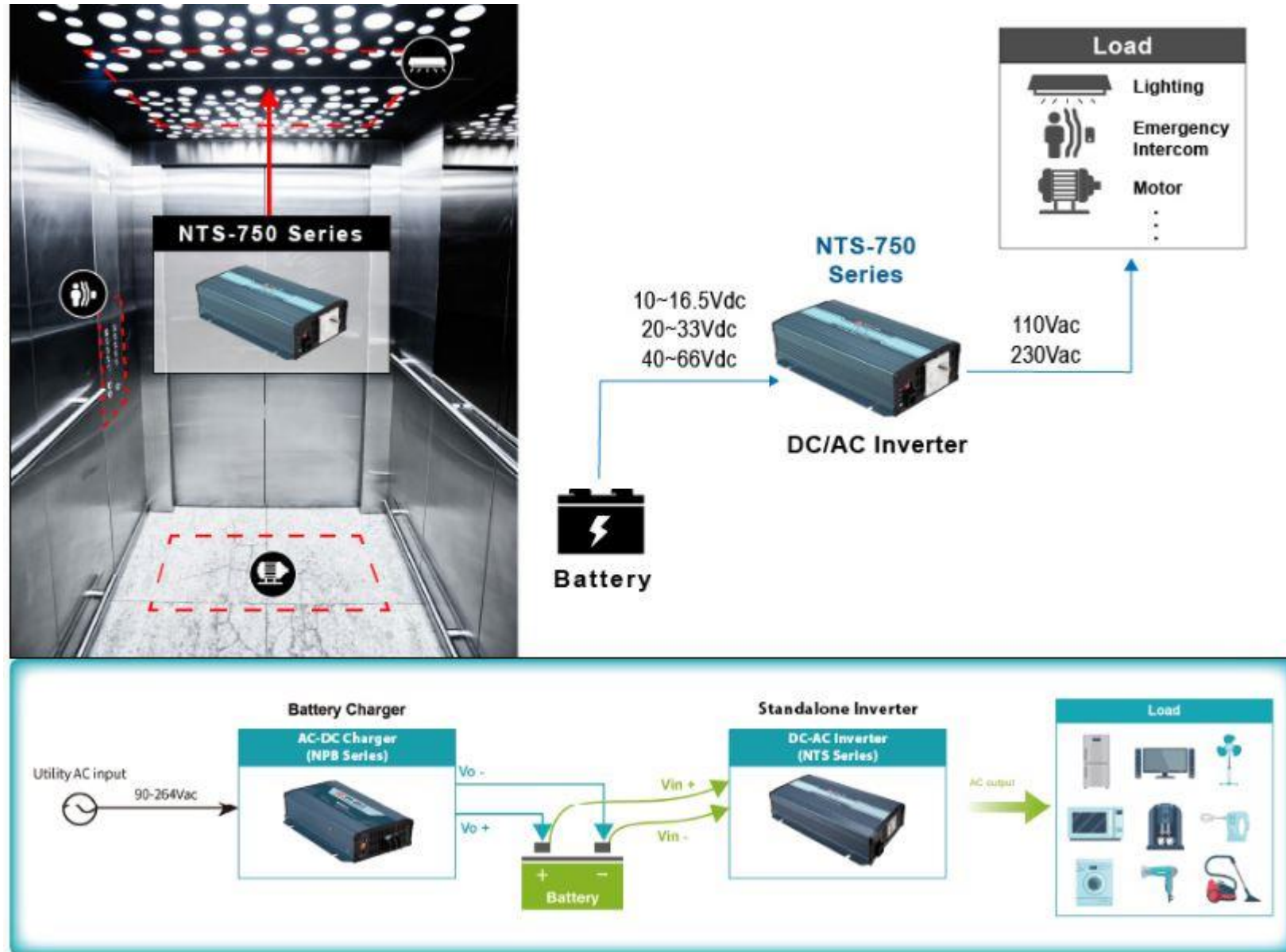
Application case- charger + inverter on light tower trailer



Application cases- charger + inverter on fire protection system



Application cases- charger + inverter on AC power backup system for elevator



Application cases- charger on mobile vehicle lift

