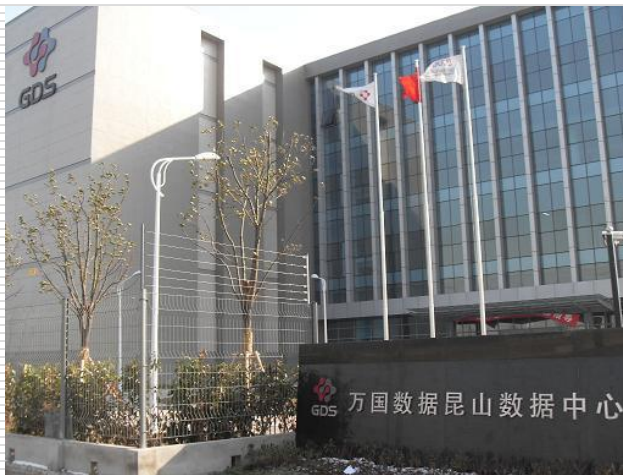


TA Module Description






Applications

As a battery sensor, TA Module may be used in all fields including base station, data center, transportation ,etc, used for monitoring each battery temperature, internal resistance and voltage .

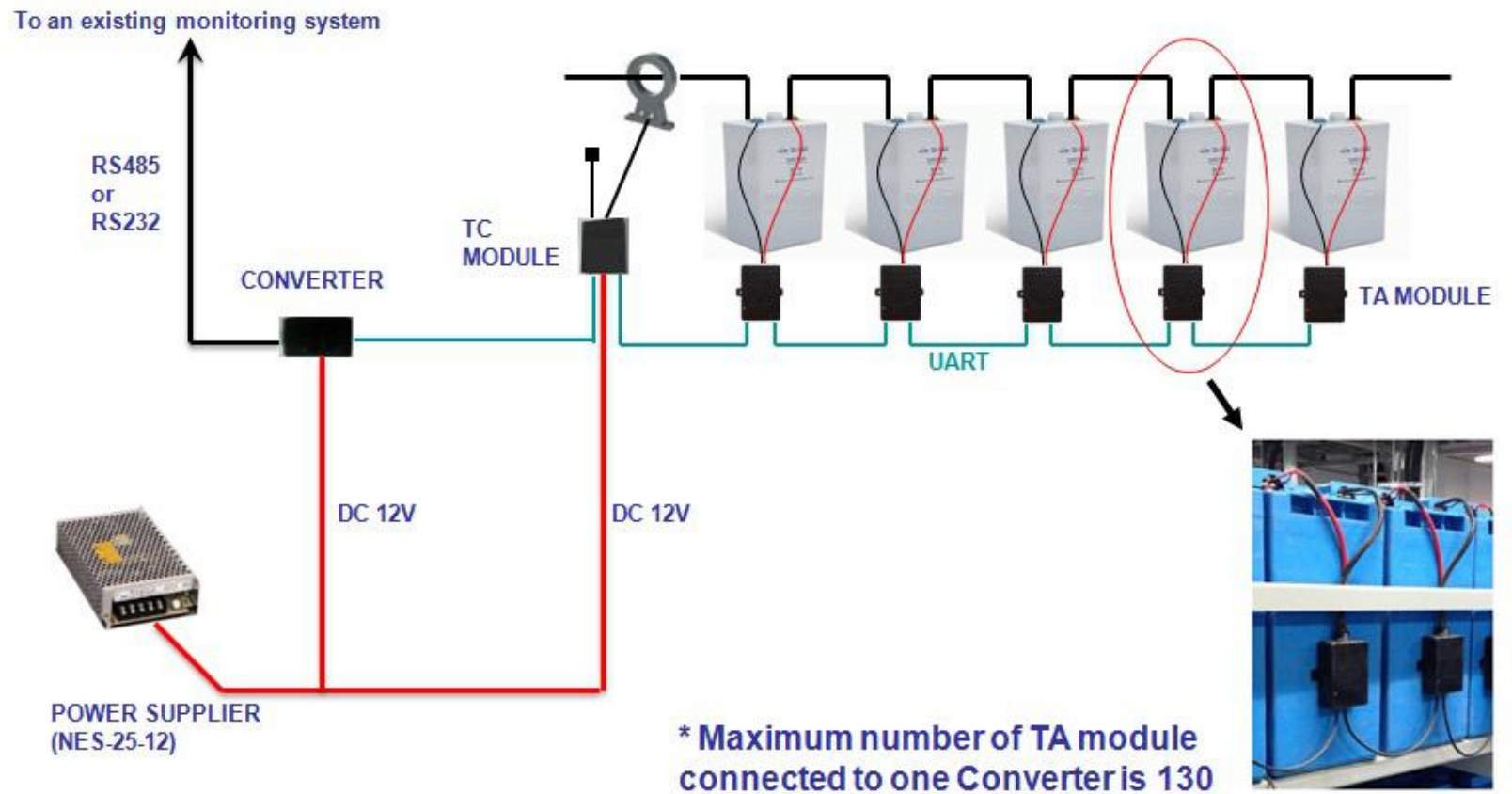


Data Center

Product Components

Appearance	Name	Description
	TA Module	One module can monitor one battery's voltage, resistance and temperature
	TC Module (Optional)	Monitoring one charge & discharge current and one ambient temperature, one module only for one string
	Converter	Converts UART bus to RS485 bus

Topology



Main Functions

Item	Functions
Monitoring items	Cell internal resistance, battery temperature, cell voltage, ambient temperature(Optional), charge & discharge current(Optional).
Operating parameter set	√
Communication port	RS485 or RS232
Communication protocol	MODBUS /RTU

Main Features

NO.	Features
1	Huasu technology single module products, one module monitoring one battery, easy for installation without special training .
2	Be able to block ripple interference from UPS.
3	Measures internal resistance by small test current(Less than 5A).
4	Monitoring voltage, resistance and battery temperature, accord with the standard ANSI/TIA - 942 and GB50174-2008.
5	Flexible configuration, support MODBUS, easy to access the third party monitoring system, low cost solution.

TA Module Interface



Test port (J1), connect to battery



UART communication port (COM1, COM2), for module looped

The green light is power light, and red light is communication light

TC Module Interface



Test port (J1), connect to current transformer and temperature sensor



Power input port (VIN), DC8-13 V

UART communication port(COM1,COM2), for module looped

The green light is power light, and red light is communication light

Converter Interface







RS485 port , connect to CM module or computer



UART communication port(COM1,COM2),
for module looping

The green light is power light, and red light is
communication light

Accessories

Picture	Name	Description
	TA Module test cable	Connecting the battery to TA Module, including internal resistance cable, voltage cable, temperature cable and temperature probe
	Current transformer	From 500A to 2000A optional, measure the battery charging and discharging current
	TC test cable	Connects CT and temperature sensor to TC module
	TA Module communication cable	Loops TA Module

Communication Interface

CELLCHECK can be accessed by an third part monitoring system via the Converter

Item	Descriptions
Device name	Converter
Port number	RS485 or RS232 port
Communication mode	RS485 or RS232
Data format	1 start bit, 8 data bits, 1 stop bit, non parity
Communication baud rate	9600BPS(Default)
Communication protocol	MODBUS /RTU

Installations



Pasted on battery cases directly

TC module and Converter could be installed on the battery shelf.

Order Reference

Order P/N	Module Name	Descriptions
H3G-TA-02	2V TA Module	For 2V battery
H3G-TA-06	6V TA Module	For 6V battery
H3G-TA-12	12V TA Module	For 12V battery
CTB-485-A	Converter	RS485 output
CTB-232-A	Converter	RS232 output
TC-500-A	TC Module	For 500A CT

The End



Thanks!