



## Mobile substation/ Portable substation

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## ➤ General

Mobile substations are mainly suitable for replacing conventional substations in emergency situations, alleviating the lack of power supply capacity in high-load seasons, and putting them into operation as temporary substations. It can quickly replace the conventional substation and restore the power supply. After the substation reaches the site, only the input and output side cables need to be connected to be put into operation.

The mobile substation has such outstanding advantages as simple and compact structure, convenient movement, reliable function, simple and quick operation, simple maintenance, and high degree of intelligence. The pre-installed semi-trailer mobile substation can be designed according to the requirements of users, and can be configured as a single car or double cars or multiple cars according to the user's use conditions.

Vehicle-mounted mobile substation is a product and system in which the entire substation or switch room is integrated on the semi-trailer and can meet outdoor use conditions. Because it is tailor-made, the content of vehicle mobile changes will change according to the specific needs of customers. For example, a vehicle-mounted mobile substation may contain some or all of the following equipment: transformers, switchgear, generator sets, outdoor load circuit breakers or disconnectors, batteries and AC/DC screens, auxiliary transformers, fire detection systems, air conditioning systems, and many other equipment

## ➤ Feature

Mobile design

Operation in safety

Easy and quick transport and installment

Special design solutions for different applications

Different applications on trailer, platform, wagon, vessel

Quick solution for Emergency Power or Additional Power Requests

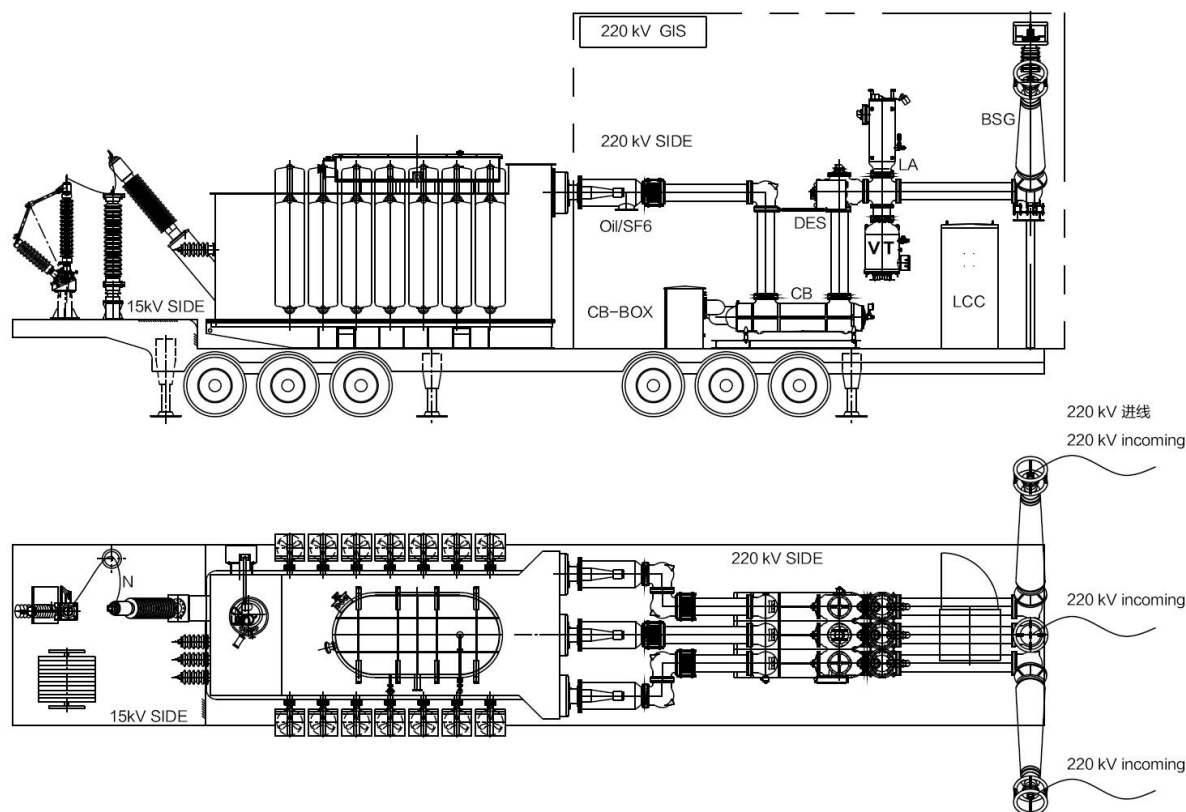
## ➤ Rated technical parameters of semi - trailer mobile substation system

序号 No.	项目 Item	单位 Unit	参 数 Parameter
1	主变压器容量 Main transformer capacity	MVA	5, 7.5, 10, 15, 20, 25, 31.5, 40, 50
2	高压侧开关额定电压 Rated voltage of the switch on HV side	kV	33, 35, 66, 110, 132, 145, 220
3	高压侧额定电流 Rated current on HV side	A	630, 1250, 2000
4	额定短路开断电流 Rated short circuit breaking current	kA	25, 31.5, 40
5	低压侧开关额定电压 Rated voltage of the switch on LV side	kV	6.6, 11, 13.8, 22, 33, 35
6	低压侧额定电流 Rated current on LV side	A	1250, 2000, 2500, 3150
7	额定短路开断电流 Rated short circuit breaking current	kA	25, 31.5, 40
8	额定频率 Rated frequency	Hz	50/60
使用环境 Ambient Environment			
9	环境温度 Ambient temperature	℃	-40 ~ +60
10	太阳辐射 Solar radiation	W/m <sup>2</sup>	1000
11	湿度 Humidity	%	≤95
12	海拔高度 Height above sea level	m	≤2000
13	风速 Wind Speed	m/s	40
14	地震条件 Earthquake	水平加速度 Horizontal acceleration	g 一般地区0.15, 强震地区0.3 General area: 0.15g Stricken area: 0.3g
		垂直加速度 Vertical acceleration	g 一般地区0.075, 强震地区0.15 General area: 0.075g Stricken area: 0.15g

For the higher condition, please feel free contact with us for further discussion.

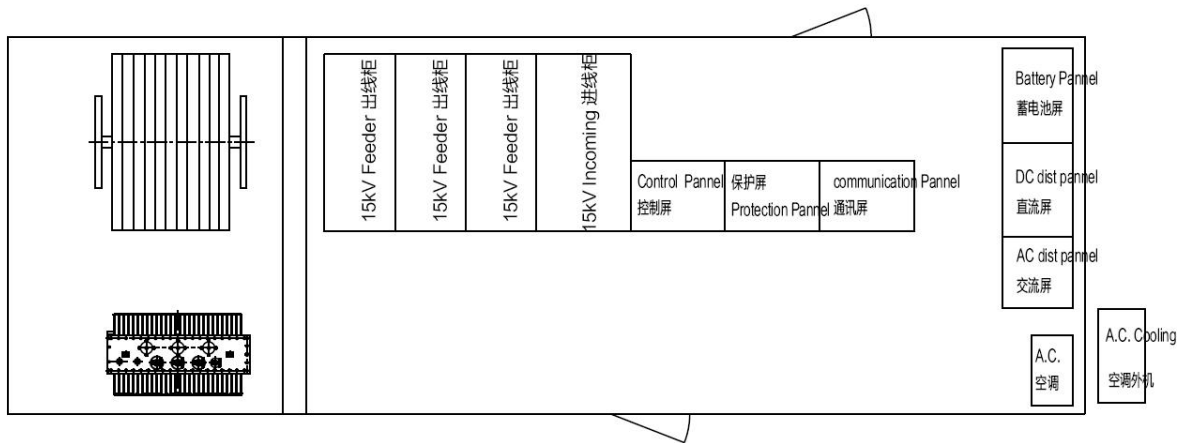
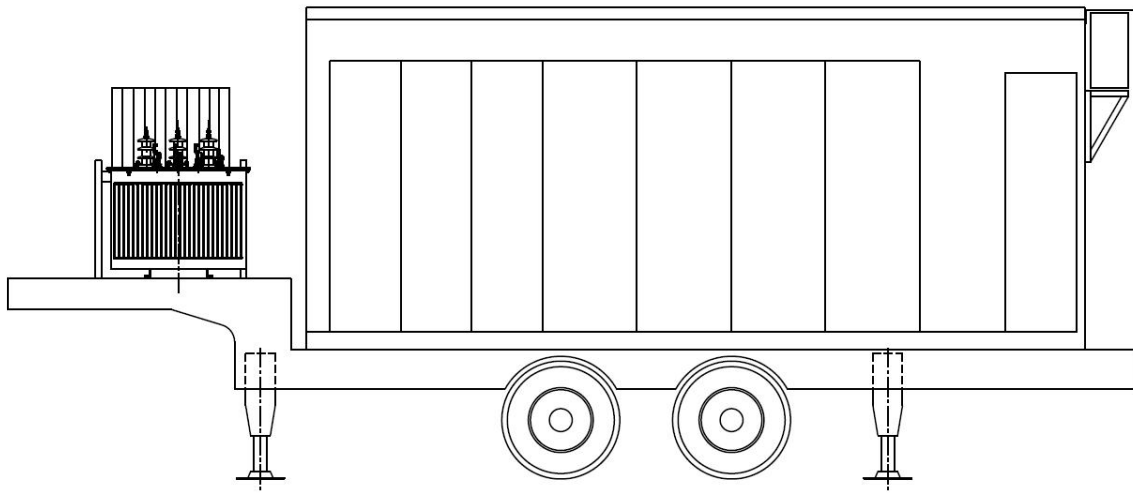
### ➤ 220KV mobile substation CZBT1-230/15-50000 drawings

The high-voltage side incoming line adopts 220kV GIS switch, and the GIS switch and transformer are connected by oil-SF6 bushing; the project uses two trailers, the high-voltage incoming line GIS and transformer are installed on trailer 1, switchgear and control, protection, measurement, etc. are installed in the container on the trailer 2



Designation	描述
CB - Circuit Breaker	断路器
DES - Disconnector and Earthing Switch	隔离和接地开关
DS - Disconnector Switch	隔离开关
TA - Current Transformer	电流互感器
TV - Voltage Transformer	电压互感器
LA - Lightning Arrester	避雷器
BSG - Bushing	套管
Oil/SF6-Oil/SF6 Immersed Bushing	oil/SF6套管

220kV 移动变电站  
1#拖车外形布置图 ( 高压进线及变压器 )

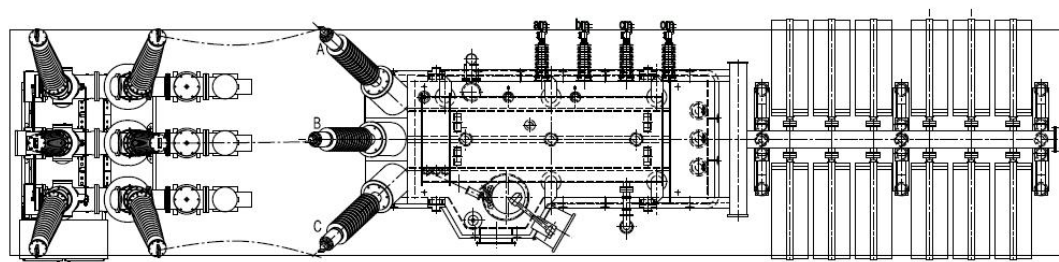
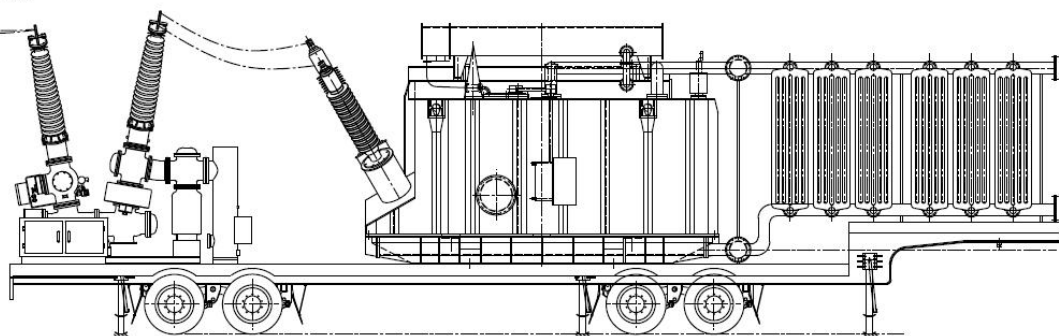


### 220kV 移动变电站

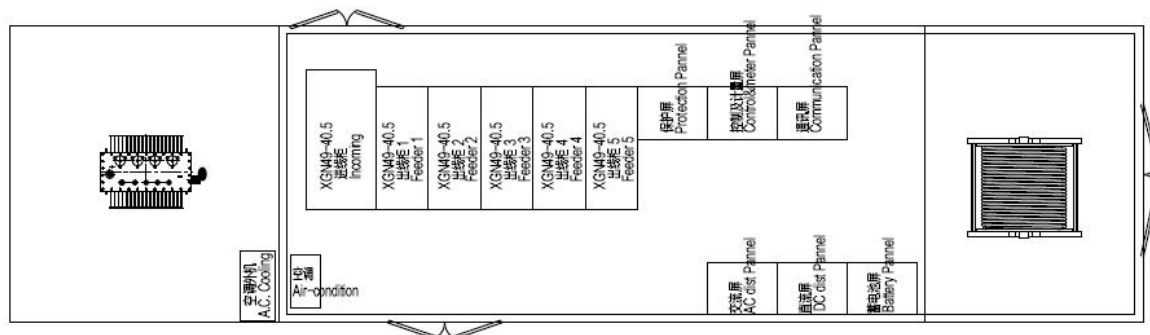
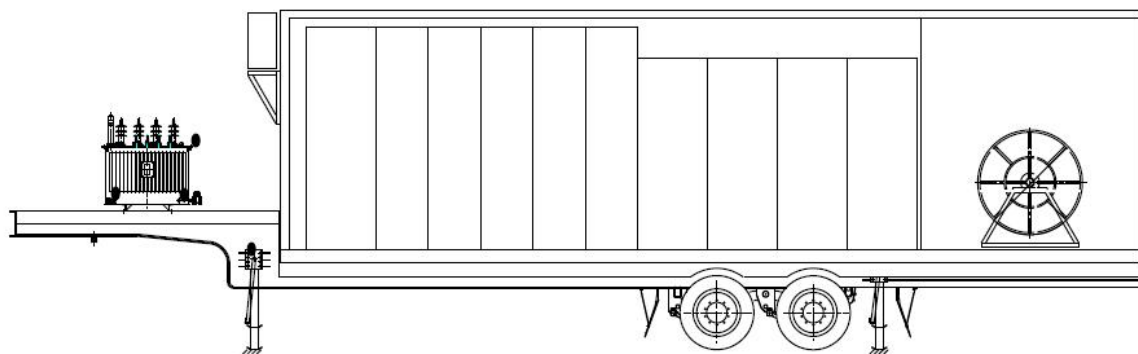
2#拖车外形布置图（低压开关柜）

➤ 132KV mobile substation CZBT1-132/33/15-5000 drawing

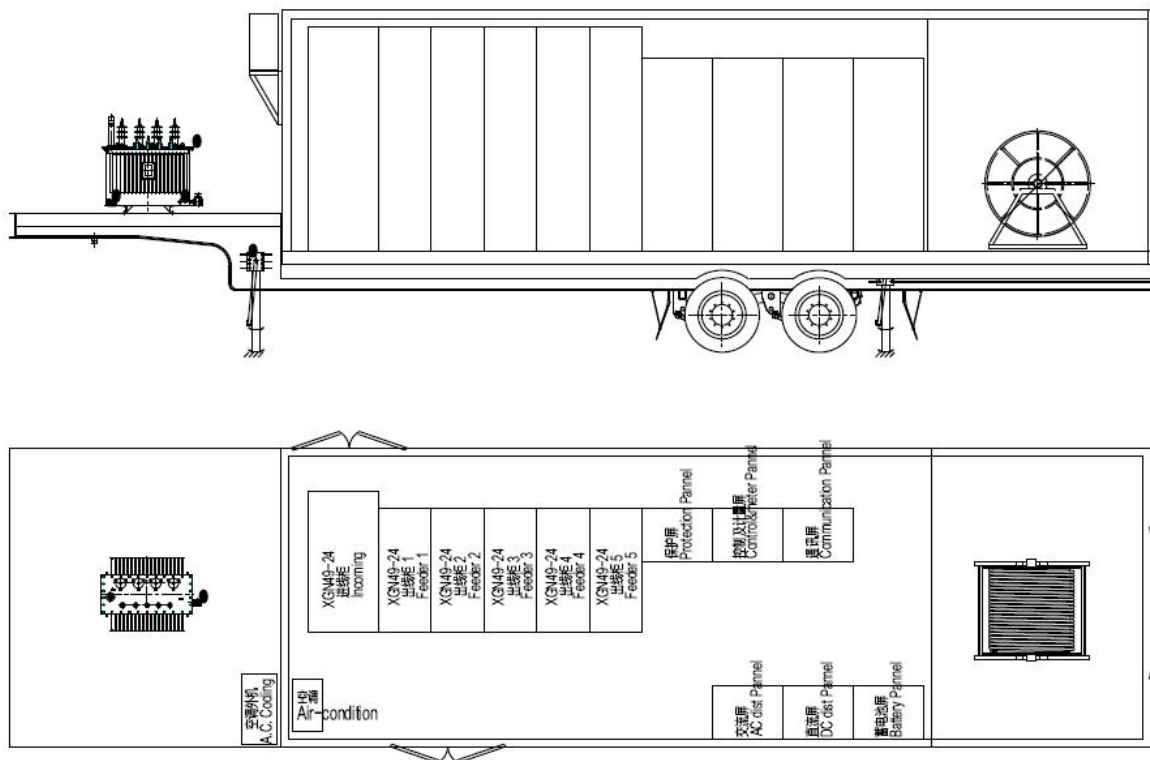
132kV 进线  
132KV INCOMING



132 kV 移动变电站  
1#拖车外形图(高压进线及变压器)



132 kV 移动变电站  
2#拖车外形图(中压侧开关柜)



132 kV 移动变电站  
3#拖车外形图(低压侧开关柜)

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