

**Narada**<sup>®</sup>  
An Expert of Energy Storage Solutions

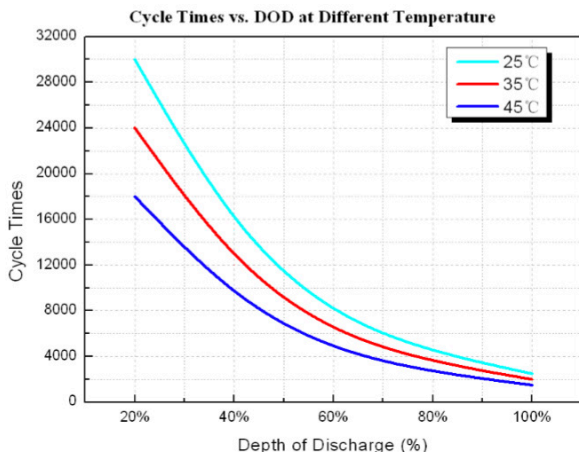


# **NESP** System

Lithium Battery Energy Storage System

# Features

- Customized System
- Flexible Module Design
- Wide Voltage Range
- Excellent Performance
- Easy Installation
- System Protection Function
- Thermal Management Function
- Chip-level Active Balance
- LED Display



Operation Environments		
Temperature Range	Discharge	-20 to +60°C
	Charge	0 to +60°C
	Storage	0 to +40°C
Temperature Recommendation	Discharge	+15 to +35°C
	Charge	+15 to +35°C
	Storage	+15 to +30°C
Humidity	5% to 95%	

# Application



## Container solution

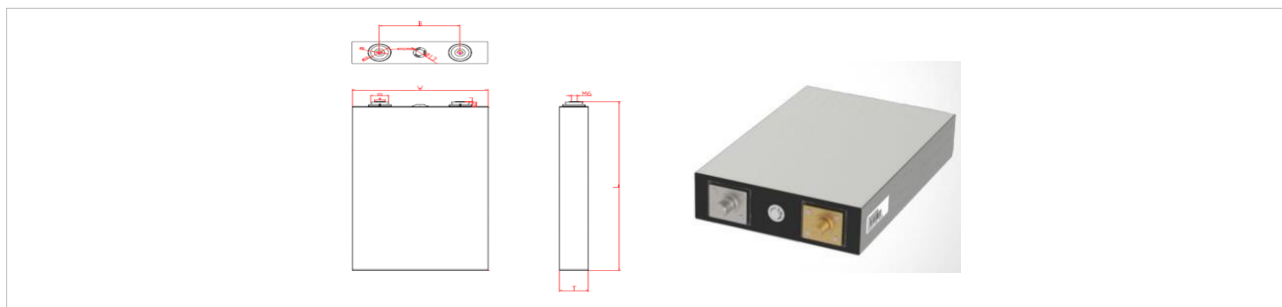


- Integrated solution, free installation and debugging, plug and play
- Full door design, easy to maintenance
- Cost effective

## Specification Of Cell

Cell Model		FE80	FE105
Rated Voltage		3.2V	
Rated Capacity		80Ah	105Ah
Continuous Discharge current(Max)		160A	200A
Standard Charge/Discharge Current		80A	100A
Charge Current(Max)		160A	200A
Charge Voltage Limit		3.65V	
Cut-off Voltage		2.5V	
Lmpedance		≤1.0mΩ	
Dimensions	Length	130.0mm	
	Width	36.0mm	
	Height	243.0mm	

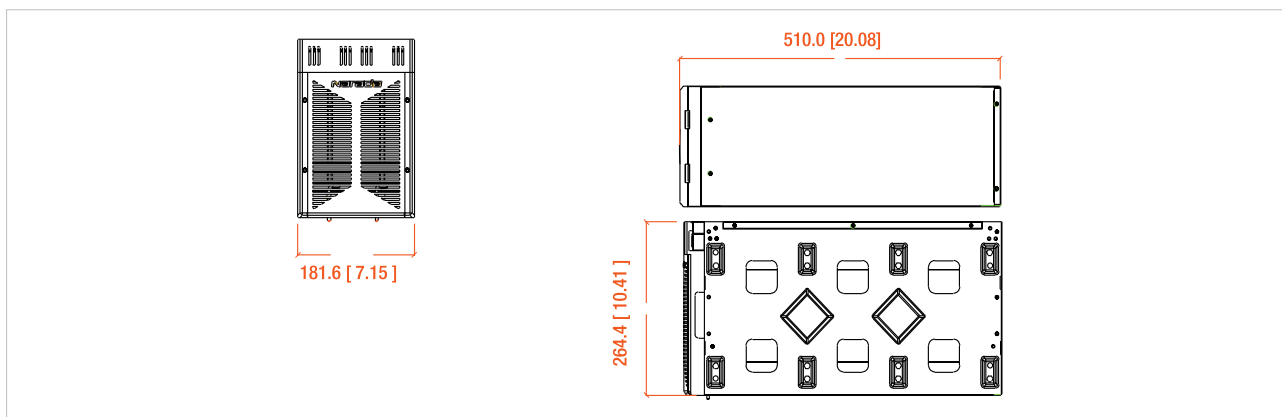
### Dimensions of cell — mm [inch]



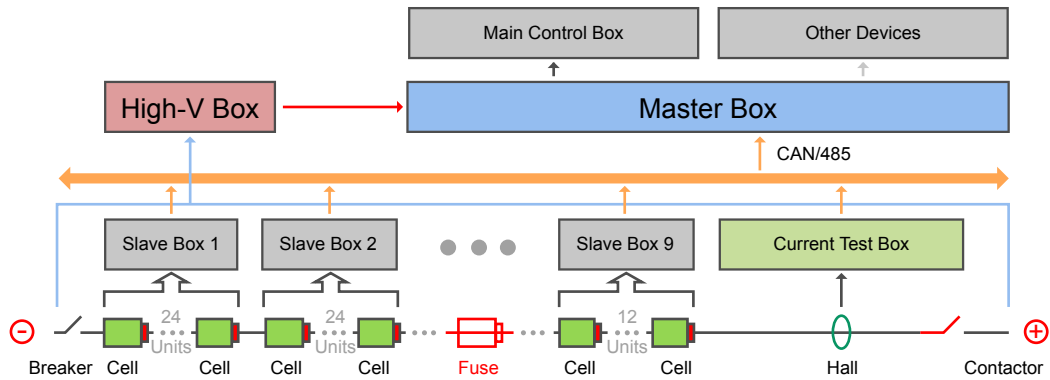
## NESP Module

Model		19NESP160/38NESP80	19NESP200/38NESP100
Rated Voltage		19.2V/38.4V	19.2V/38.4V
Rated Capacity		160Ah/80Ah	200Ah/100Ah
Weight		35Kg	38.5Kg
Dimensions	Length	510.0mm	
	Width	181.6mm	
	Height	264.4mm	

### Dimensions of module — mm [inch]



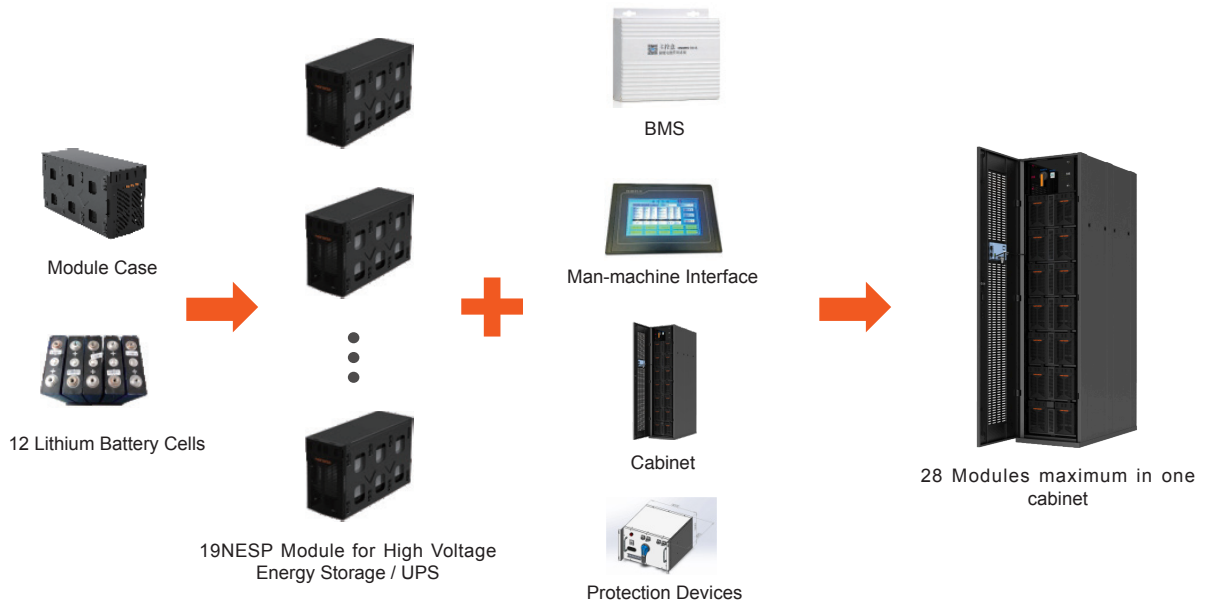
# BMS Diagram



# BMS Function

- Battery Working Condition Monitoring
- State of Charge (SOC) Estimation
- State of Health (SOH) Estimation
- Discharge Control
- Thermal Management
- Fault Diagnosis Alarm
- Information Monitor
- Balance
- Protection

# NESP System



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