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Household Energy Storage System



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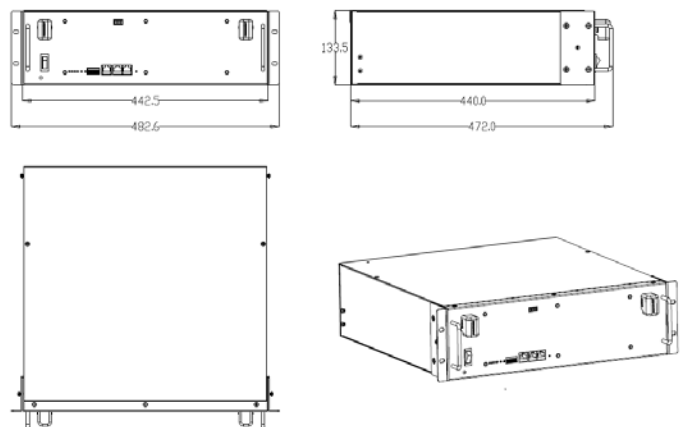
Technical advantages

- Modular design, convenient installation, supports wall mounting, stacking, and 19-inch cabinet installation, etc.
- Support parallel power expansion, up to 16 groups in parallel.
- Wide application, good compatibility. Has been matched with mainstream inverter brands and can match customized protocols.
- Communication mode: CAN and RS485.
- Deep cycle, long life.
- Long design life: 15 years@25°C.

Appearance And Size



Dimensions-mm



Installation



Specifications

Parameters		NESR48100
Nominal Voltage(V)		48
Nominal Capacity(Ah)		100
Nominal Energy(Kwh)		4.8
Discharge Current (A) (Max.)		100
Charge Voltage(V)		54.0±0.5
Charge Current (A) (Recomm.)		20
Charge Current (A) (Max.)		100
Typical Weight(kg)		40
Dimensions(W*D*H)(mm)		442.5X440X133.5
Status Indicators		SOC/RUN/ALM
Communication Ports		CAN/RS485
Communication in Parallel		16
Switch		Available
Dry contact		Available
Terminal Size		M8(Screw Size)
Operating Temperature	Discharge	-20~60℃
	Charge	0~60℃
	Storage	0~40℃
Temperature recommendation	Discharge	15~35℃
	Charge	15~35℃
	Storage	15~35℃
Humidity		5%~95%

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HESS Solution NESR48100

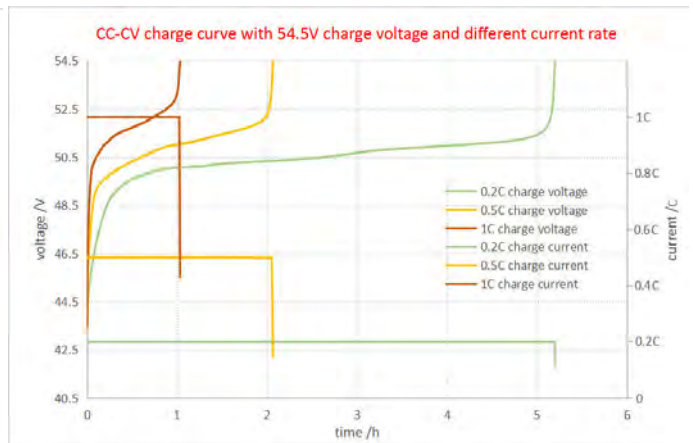
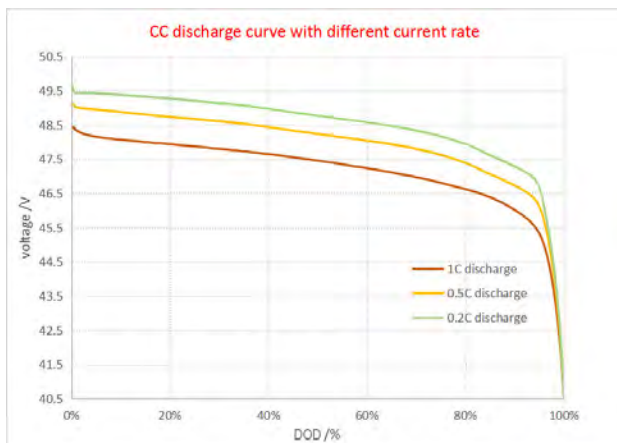
Constant Current Discharge Characteristics /for one module (25°C,77°F)

End voltage	Current(A)	0.1C	0.2C	0.33C	0.5C	0.8C	1.0C
	Time						
		Hours					
46.5V		9.73	4.85	2.93	1.90	1.15	0.90
45.0V		9.92	4.96	3.00	1.96	1.20	0.93
43.5V		10.05	5.03	3.05	2.00	1.23	0.96
42.0V		10.13	5.07	3.08	2.02	1.25	0.98
40.5V		10.18	5.10	3.09	2.03	1.26	1.00

Discharge Data with Constant Power /for one module (25°C,77°F)

End voltage	Power	480W	960W	1580W	2400W	3800W	4400W
	Time						
		Hours					
46.5V		9.83	4.89	2.92	1.85	1.05	0.82
45.0V		10.02	4.99	3.01	1.91	1.11	0.86
43.5V		10.13	5.05	3.05	1.95	1.15	0.90
42.0V		10.21	5.09	3.08	1.98	1.18	0.93
40.5V		10.25	5.12	3.09	2.00	1.20	0.95

Performance Curves



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