



500KW/1MWH

All-in-one Wind-cooled ESS Container

- Multiple working modes can be flexibly set.
- Support real-time online monitoring of system status.
- Support battery management system and comprehensive thermal management.
- Support simultaneous access to load, battery, grid, DG, and PV .
- The electrical compartment and battery compartment are separated to prevent runaway spread of heat.
- Integrated design, easy to transport and install, flexible deployment.

MODEL	MECC-20FT-1075	MECC-40FT-2150
AC DATA		
Rated power (kW)	500	1000
Rated voltage (V)	400	
Rated current (A)	722A	1445A
Voltage range (V)	320V-460V	
Rated frequency	50/60Hz	
Frequency Range	45-55/55-65Hz	
THDi(on-grid)	<3%	
THDu (off-grid)	≤ 1% linear; ≤ 5% non-linear	
Power factor	1 (0.8 leading ~ 0.8 lagging can be set)	
Overload capacity	110% Long term	
AC output	3W+N+PE	
Isolation transformer	315/400	
On -grid off-grid switching	Support	
POWER FACTOR		
Max.PV input voltage (V)	1000	
Max. PV power (kW)	600/660/720	1200/1320/1440
MPPT operating voltage range (V)	250-850	
MPPT full load voltage range (V)	450-850	
Buck-boost mode	Support	
BATTERY DATA		
Cell type	3.2V/280Ah/LFP	
Nominal voltage(V)	768V/IP240S	
Nominal energy (MWh)	1.0752	2.1504
Working voltage range (V)	672-850V	
Max. charge and discharge rate	0.5C@25°C	
Number of Battery Cycles	≥5000	
SYSTEM DATA		
Dimensions W *D *H (mm)	6058×2438×2896	12192×2438×2896
Net weight (kg)	21000	38000
Operating temperature (°C)	0 ~ +45	
Relative humidity	0 ~95% (non-condensing)	
Ingress protection	IP54	
Noise emission (dB)	<75dB	
Operating altitude	3000m	
Cooling	Intelligent air cooling	
fire extinguishing system	FM200/NOVEC1230	
Display	Touch LCD display+cloud platform	
EMS communication	RS485, TCP/IP	

Application scenarios

- House
- Farm
- Telecom
- Countryside
- Island
- Pasture

