

BESS MV ILT 2500

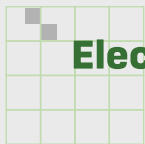


Turnkey integrated MV transformer station

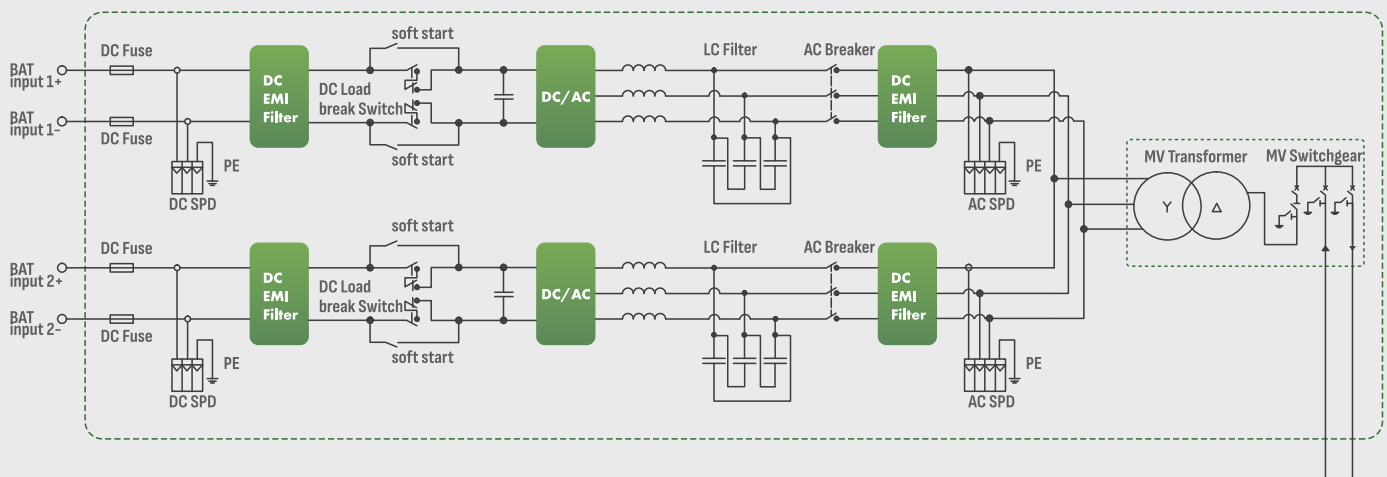


Advantages

- ▶ PCS Max. efficiency up to 99%
- ▶ Full reactive power four-quadrant capability
- ▶ Millisecond-level power response to EMS/SCADA
- ▶ IP55 protection of PCS, IP54 protection of MV station
- ▶ Increased environment temperature working range $-35 \sim +60^{\circ}\text{C}$



Electric circuit diagram





MODEL		BESS MV ILT 2500
DC parameters		
Max. DC votlage		1500 V
Max. DC current		2800 A
Battery voltage range		1000-1500 V
Number of DC inputs		2
AC parameters (On-Grid)		
AC output power		2500 kVA
PCS AC voltage range		690 V
PCS Max.AC current		2400 A
Nominal grid frequency		50 Hz
THDi		<3%
Power factor		±0-1.0 (four-quadrant operations)
AC parameters (Off-Grid)		
PCS Nominal AC voltage		690V, 3P3W+PE
PCS AC voltage range		690V
AC voltage distortion		<3% (100% linear load)
Nominal grid frequency		50Hz
Transformer		
Transformer type		Oil-immersed transformer
Transformer rated power		2500 kVA
LV/MV voltage		0.69 kV/6kV/10kV/20kV (other options upon request)
Transformer vector group		Dyn5/Dyn11 (other options upon request)
Transformer cooling type		ONAN
Oil type		Mineral oil (PCB free) or degradable oil on request
Volume of the oil receiver under the transformer		3000 L
General information		
PCS Max. efficiency		99%
PCS European efficiency		98.5%
Ingress protection (IP) rating		IP 55
Operating temperture range		-35 ~ +60 °C(>45 C derating)
Relative humidity		0-100% (no condensing)
Max. altitude		5000m (>2000m derating)
Cooling method		Fully closed cabinet with liquid cooling (no additional air condition required)
Communication port		Ethercat, EtherNet/IP, Modbus TCP, Profinet, other upon request
Dimensions (W*D*H)		6058x2438x2896 mm
Weight		13770 kg