

## MCS INVERTER SERIES

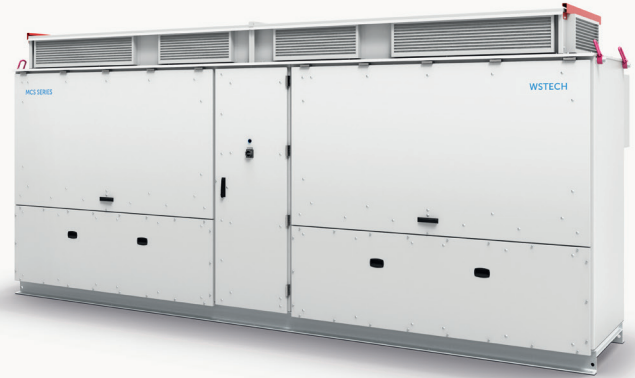
OUTDOOR HYBRID INVERTER SERIES, WITH POWERFUL SOLUTION FOR LARGE-SCALE ESS AND PHOTOVOLTAIK INSTALLATIONS.

### INNOVATIONS MCS GENERATION:

- ✓ 1500 VDC systems from 3130kVA up to 7500kVA
- ✓ DC-separated version with up to 4 independent controllable power units and 4x 1875kVA
- ✓ Up to 4x 140kA short circuit level DC inputs for high capacity
- ✓ Possibility for an additional internal auxiliary transformer available up to 80A
- ✓ Integrated common mode filter for battery protection for separated version
- ✓ Optimized AC connections, combining up to 3750kVA per connection

### MCS MAIN FEATURES AND OPTIONS

- ✓ Fast response times below 100ms and high communication speed
- ✓ Air cooled system, no cooling liquids required
- ✓ Hermetically closed cabinet for the compartment with sensitive components (no dust, sand or rain inside)
- ✓ Ambient conditions -40°C up to 60°C
- ✓ Supply of up to 100% leading/lagging reactive power



UL IN PROCESS	SEISMIC TESTED	VDE-AR-N 4110 CERTIFIED
VDE-AR-N 4120 CERTIFIED	IEC CERTIFIED	IP55 IN PROCESS



## MCS INVERTER SERIES – MULTIPLE APPLICATIONS IN ENERGY STORAGE SYSTEMS:

### Grid stability

- ✓ Frequency and voltage regulation
- ✓ Ramp rate control
- ✓ Reactive power control
- ✓ Power quality enhancement
- ✓ Primary reserve power (FCR)

### Island grid

- ✓ Black start
- ✓ Grid forming function (off grid)
- ✓ Backup power and uninterruptible power systems

### Load management

- ✓ Load leveling
- ✓ Peak power shaving
- ✓ Load following, load balancing
- ✓ Increased self-consumption of PV / renewable energy
- ✓ Power-boost for charging station of electrical vehicle

## MCS MEDIUM VOLTAGE SKID

### INNOVATIONS MEDIUM VOLTAGE SKID:

- ✓ Compatible with MCS outdoor series
- ✓ All-in-one solution, transformer, cables, switchgear (RMU)
- ✓ Wide range of MV transformers available up to 36kV
- ✓ Switchgear gas-insulated, circuit-breaker or HV HRC fuse versions with outdoor enclosure
- ✓ Transformer with reduced inrush current available
- ✓ Transformer in ECO standard available
- ✓ Ester filling & warranty extension available **OPTIONAL**
- ✓ Oil containment for different regional standards available **OPTIONAL**
- ✓ WSTECH MV-Skid – shortened version except switchgear available **OPTIONAL**
- ✓ Project specific protection logic available (RMU / hermetic protection) **OPTIONAL**

