

APS INVERTER SERIES – 2ND GENERATION

POWERFUL & ADVANCED OUTDOOR INVERTER
SOLUTION FOR PV + ESS + STATCOM

INNOVATIONS APS 2ND GENERATION:

- ✓ DC-split version with up to 4 independent controllable power units and 4x 1250kVA ^{NEW}
- ✓ Up to 4x 140kA short circuit level DC inputs for high capacity / long duration Energy Storage Systems ^{NEW}
- ✓ Integrated common mode filter for battery protection ^{NEW}
- ✓ Black start and island grid / grid forming function ^{NEW}

APS MAIN FEATURES AND OPTIONS:

- ✓ 1500 VDC systems from 600kVA up to 5000kVA ^{NEW}
- ✓ Corrosion class C4H or C5M ^{NEW}
- ✓ Optimized AC connections, combining up to 2500kVA per connection ^{NEW}
- ✓ Additional interface for transformer cooling ^{NEW}
- ✓ Second 8kVA transformer or terminals for external auxiliary transformer available ^{NEW}
- ✓ Fast response times below 100ms and communication speed up to 10ms
- ✓ Water-cooled IGBT and inductance combined with air to air heat-exchanger
- ✓ Hermetically closed cabinet (no dust, sand or rain inside)
- ✓ Ambient conditions -40°C up to 60°C, up to 5000m altitude
- ✓ Supply of up to 100% leading / lagging reactive power
- ✓ Efficiency up to 99,0%



UL CERTIFIED	SEISMIC CERTIFIED	VDE-AR-N 4110 CERTIFIED
VDE-AR-N 4120 CERTIFIED	IEC CERTIFIED	IP65 CERTIFIED



BAT SERIES

INDOOR & OUTDOOR INVERTERS

BAT SERIES – MAIN FEATURES AND OPTIONS:

- ✓ For 890 VDC systems from 50kVA up to 900kVA
- ✓ BAT outdoor inverter Seismic & UL certified
- ✓ Maximum efficiency: 98,0%
- ✓ Black start and island grid / grid forming function
- ✓ 50kVA – 280kVA with integrated grid side transformer
- ✓ Robust industrial quality



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APS AND BAT 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
- ✓ Renewable energy time shift (Demand shifting)