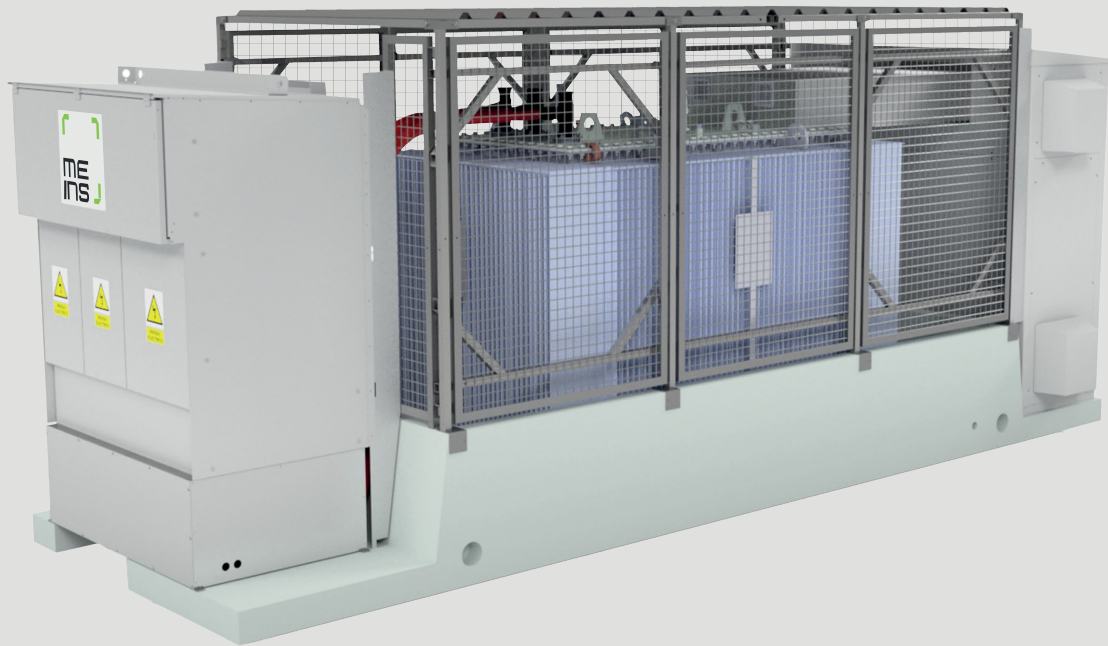


# BPS - S

Battery Power Station - String  
Full Outdoor



MEINS



Custom design based  
on customer requirements



Oil collection  
tank included



Made in Europe



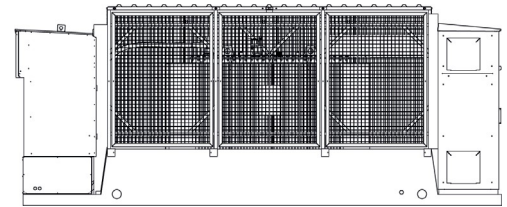
Easily transportable by  
standard truck or OT container

**Meins BPS-S** is a Power Station, Plug & Play philosophy, designed to connect to a battery container equipped with integrated string inverters.

The power capacity is fully customizable, depending on the specifications and capacity of the battery container, with a maximum power capacity of up to 7 MW. It consists of a precast concrete platform equipped with a LV panel and a MV switchgear, as well as a power transformer equipped with oil collection tank and a perimeter fence.

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Battery Power Station - String | Full Outdoor



## Technical specifications

<b>Transformer</b>	
Transformer type / Cooling / Winding	Hermetically sealed corrugated tank / ONAN / Aluminium MV & LV winding
AC Power	Tailored -> Up to 7000 kVA (30 °C)
Vector group	Dy11y11 (IT system, TN system on request)
Voltage ratio / (U m / U AC / U LI)	Primary: Up to 40,5 kV (40,5-95-118 kV) / Secondary: 630-690 V – 630-690 V (3,6-10-20 kV) *Depending on the inverter model selected
Frequency / No-load tap changer	50Hz / DETC ± 2 x 2.5%
Maximum no-load / load losses	No load: UE548/2014 TIER 2 / Load: UE548/2014 TIER 2
Ucc % (HV/V1-LV2 / HV-LV1 / HV-LV2)	-% / -% / -%
Other features	DGPT2+PT100, MV bushing type C, filling and drainage valve, lifting lugs, grounding terminal, LV terminal cover
Optional	Dual primary winding, KNAN
<b>MV switchgear (Outdoor)</b>	
Insulation type / Rated voltage / (U m / U AC / U LI)	SF6 / Up to 40,5 kV / (40,5-95-185 kV). SF6-Free solution available upon request, rated up to 24 kV
Nominal current / Short-time current / IAC	630 A / 20 kA/1s / IAC AFLR 20 kA/1s
Configuration	2RIL (without motorized CB)
Transformer protection device	Self-powered relay (50,51,50N,51N)
Other features	Voltage presence device VOIS+/WEGA, 1st y 2nd trip coil, manometer, bushing type C, grounding terminals, C1 interlocking at transformer switchgear
Optional	Motorized CB, P1 cross interlocking at line switchgear, cascade control, double cable/phase kit, MV surge arrester, undervoltage coil, voltage presence device Capdis S2+, voltage presence device VOIS R+.
<b>LV panel (Outdoor)</b>	
ACB - Specification	2x 3200 A / LSI / 1000 Vac / 85 kA / 3P / Trip coil
MCCB / Fuse / MCB / RCCB – Specification	MCCB: 20x 320 A (not necessary if inverters have self-protection) + 2x 63 A / LSI / 800Vac / 50kA / 3P Fuses: 6x 125 A (SPD) + 2x 16 A (AASS Transformer) MCB-RCCB: As per SLD
Auxiliary transformer	Single phase: 10 kVA, 2x630-690 V / 2x230 V, IP00, 50 Hz, up to 1000 m.a.s.l (Three-phase transformer available upon request, with a range of power options)
Other features	UPS DC/DC 24 Vdc, PLC for signal monitoring, SPD I+II, lighting and socket system
Optional	Auxiliary transformer power up to 40 kVA, motorized ACB + close coil / undervoltage coil, UPS AC/AC 230 Vac up to 3 kVA, insulation monitoring device, Emergency trip button, pre-installation of customer communications devices and terminals, datalogger PLC and power supply cabling, Grid analyzer 800Vac, U/F relay, unmanaged ethernet switch
<b>Miscellaneous</b>	
Other features	Oil retention tank, security tools, fire & anti-intrusion detecting system, earthing system, LV cabling & MV cabling with KOZ clamps
Optional	Seismic anchorage pieces, foundation calculation report, precast footing, carbon filter, perimeter fence with key lock and roof, set of handling hooks
<b>General</b>	
Structure material	Reinforced and vibrated concrete
Dimensions (L x W x H)	6385 x 2050 x 2500 mm
Weight	<22 Tn
Operation temperature / Humidity Range	-15°C ~ 60°C (-13 °F ~ 140 °F) / 0% ~ 95%
Protection rating / Painting colour	Transformer, LV panel: IP54 / C4H / RAL 7035 MV switchgear: IP54 / C5M / RAL 7035 Perimeter fence: IPX2 / C4H / RAL 7035 Concrete skid: RAL 7035 *Other RAL upon request
Max. operating altitude	2000 m (higher altitude available as optional)
Standards	REBT, RAT, NEN, VDE, IEC 60076, IEC 61439-1, IEC 62271-200, IEC 62271-202, EN 50588-1