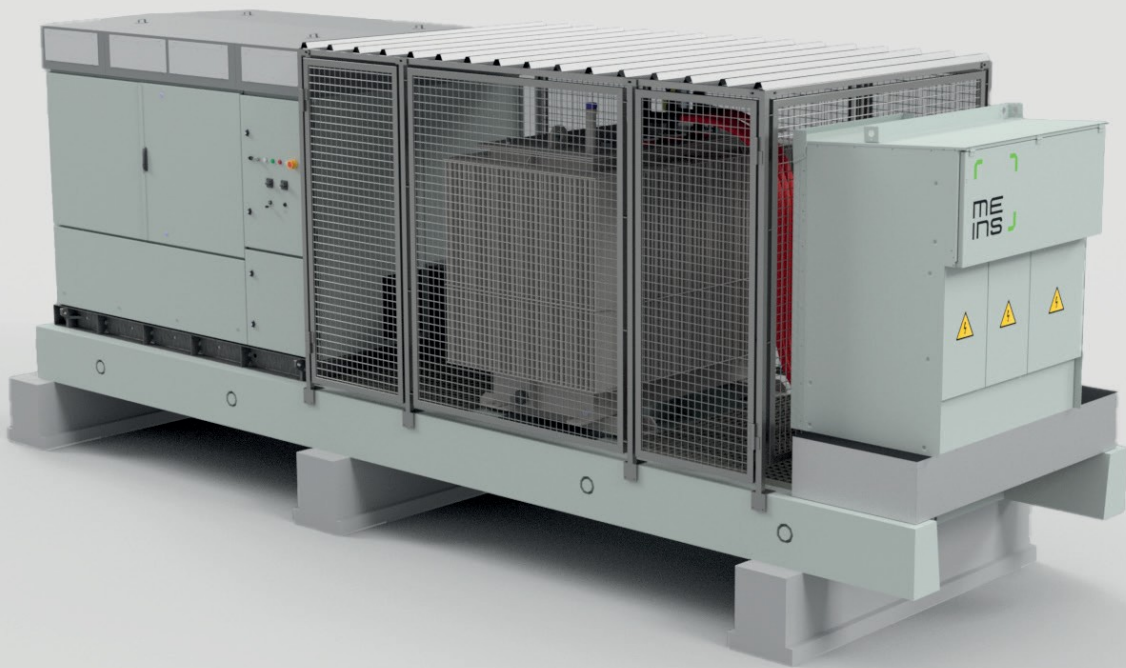


BPS - C

Battery Power Station - Central
Full Outdoor



MEINS



Custom design based
on customer requirements



Oil collection
tank included



Made in Europe



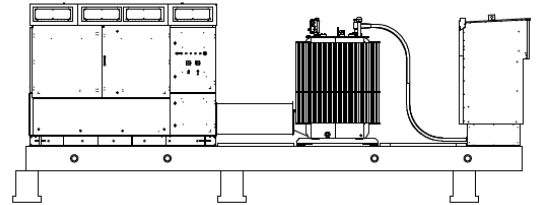
Easily transportable by
standard truck or OT container

Meins BPS-C is a Power Station, Plug & Play philosophy, designed for BESS installation.

The power capacity is fully customizable, depending on the specifications and capacity of the central inverter (Power Electronics or SMA model). The maximum capacity is up to 5 MW. It consists of a precast concrete skid equipped with a central inverter, a MV switchgear, as well as a power transformer with an oil collection tank and a perimeter fence.

BPS - C

Battery Power Station - Central | Full Outdoor



Technical specifications

Transformer	
Transformer type / Cooling / Winding	Hermetically sealed corrugated tank / ONAN / Aluminium MV & LV winding
AC Power	Tailored -> Up to 5000 kVA (30 °C)
Vector group	Dy11 (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/LV)	-%
Other features	DGPT2+PT100, MV bushing type C, filling and drainage valve, lifting lugs, grounding terminal, LV terminal cover
Optional	-
MV switchgear (Outdoor)	
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+.
Low Voltage Panel (Outdoor)	
MCCB / Fuse / MCB / RCCB – Specification	MCB – RCCB – Fuses: As per SLD
Other features	PLC for signal monitoring, Ethernet managed switch 8x port RJ45
Optional	-
BESS Converter (Out of Meins scope)	
Optional	BPS-C integrates the BESS converter type Power Electronics FP4390K, assembled in the concrete skid and connected to the MV/LV transformer
Miscellaneous	
Other features	Transformer oil retention tank, carbon filter, security tools, earthing system, LV cabling & MV cabling with KOZ clamps
Optional	Seismic anchorage pieces, foundation calculation report, precast footing, perimeter fence with key lock and roof, set of handling hooks
General	
Structure material	Reinforced and vibrated concrete
Dimensions (L x W x H)	8,000 x 2,050 x 2,700 mm
Weight	<24 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