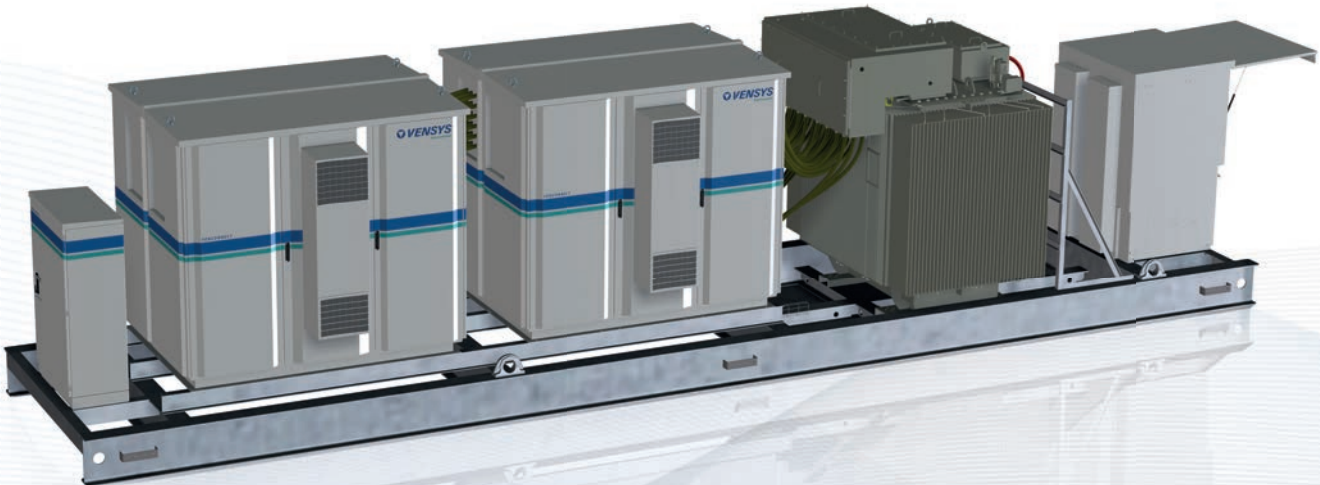


VENSKID Hybrid



▼ Flexible

- Modular, expandable system for project-specific requirements

▼ Easy Installation

- Installation on strip foundation (no building infrastructure required)
- Integrated oil pan for increased operational safety

▼ Medium-voltage transformer

- 3,5 bis 8 MVA power
- Medium voltage up to 35 kV, optionally with RMU

▼ Low Voltage distribution

- Up to 36 outputs for BESS-systems
- Up to 36 outputs for PV-systems

▼ Self-supply

- Modular 9 / 18 / 36 outputs for BESS-applications

▼ EMS

- Integrated EMS directly on the skid

TECHNICAL DATA

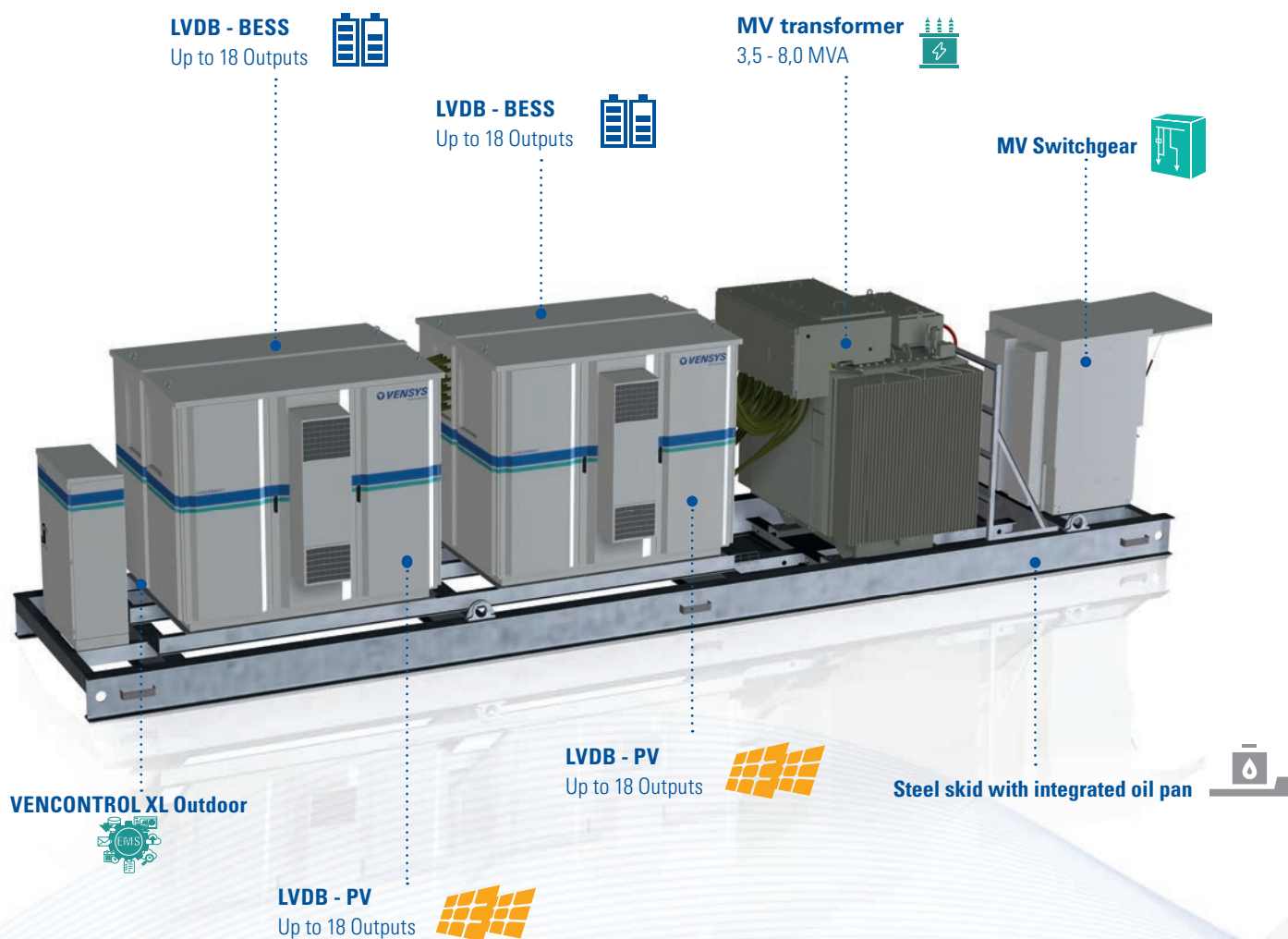
General Specifications	VENSKID Hybrid 3.5 MVA	VENSKID Hybrid 4 MVA	VENSKID Hybrid 5 MVA	VENSKID Hybrid 6.3 MVA	VENSKID Hybrid 7 MVA	VENSKID Hybrid 8 MVA
Dimensions L x W x H	7,500 x 2,440 x 3,000 mm		10,500 x 2,440 x 3,000 mm			
Weight approx.	14.6 t	15.3 t	20.8 t	23.8 t	24.2 t	25.0 t
Enclosure Protection Class MSA/LVDB/EMS	Double-walled outdoor enclosure IK-10, IP55					
Protection Class Transformer	C4-L, junction box: IP55					
Noise Level	< 72 dB(A) at 1 m					
Temperature Range, Operation	- 25 to + 40 °C (Derating > 40°C)					
Transformer Cooling	ONAN					
LVDB Cooling	Air-conditioned					
Installation Location	≤ 1,000 m above sea level					
Humidity	≤ 95% non-condensing					
Environmental Protection	Oil/ester collection tray, integrated into the steel skid in accordance with TRwS and StawaR, with a 1 1/2" drain					
Drainage of Collection Tray	optional oil/ester separator for 1 1/2" drain					
MV Switchgear (optional ¹⁾)						
Type	Compact outdoor RMU					
Voltage Level	24 kV / 36 kV					
Insulation	24 kV SF6-free / 36 kV with SF6					
Rated Current	630 A					
Switch Panels	Ring-Ring-Switch					
MV Transformer						
Rated Voltage	10 kV / 20 kV / 33 kV / 35 kV (other voltages available upon request)					
Rated Power	3.5 MVA	4 MVA	5 MVA	6.3 MVA	7 MVA	8 MVA
Power Frequency	50 Hz					
Primary Tap Change	-5%, -2.5%, 0%, +2.5%, +5%					
Switching Group	Dyn5		Dyn5 / yn5			
Rated Current	3,050 A	3,500 A	2 x 2,200 A	2 x 2,750 A	2 x 3,050 A	2 x 3,500 A
LVDB						
Number of LVDB	1		2			
Rated Voltage	660 V AC					
Total Rated Current	3,062 A	3,499 A	4,374 A	5,512 A	6,124 A	6,998 A
LVDB Side A - BESS						
Number of Circuit Breakers	1		2			
Max. Current (per Circuit Breaker)	3,200 A	4,000 A	2,500 A	3,200 A		4,000 A
BESS Outputs	18		36			
Fuse Rating per BESS Output	200 A NH2					
400 V Auxiliary Circuits for BESS	9 (0.5 C system) / 18 (0.25 C system)		18 (0.5 C system) / 36 (0.25 C system)			
230 V UPS Supply Circuits for BESS	9 (0.5 C system) / 18 (0.25 C system)		18 (0.5 C system) / 36 (0.25 C system)			
UPS Power	5,000 VA (approx. 4 min. @ 4,500 W)		5,000 VA (approx. 4 min. @ 4,500 W) / 10,000 VA (approx. 4 min @ 9,000 W)			
Customer Interface (optional)	Power output 400 V 3P/N/PE 20 kVA					
LVDB Side B - PV						
Number of Circuit Breakers	optional (1) ²		optional (2) ²			
Max. Current (per Circuit Breaker)	3,200 A	4,000 A	2,500 A	3,200 A		4,000 A
PV Inverter Outputs	18		36			
Fuse Rating per PV Output	160 A NH2					
EMS						
Type	VENCONTROL XL Outdoor					
Communication with BESS and PV	RJ 45 Ethernet / MODBUS-TCP					
External Communication	SFP slot (custom fiber network) / optional IEC 104 interface					
Web user Interface	included					
Remote Access	optional (static IP required)					
Protection Devices						
Grid and System Protection	optional zEKS					
Short Circuit and Cable Protection on the Low-Voltage Side	Load break switch + fuses					
SPD - (Low-Voltage Side)	including Type 1 / 2					
Monitoring / Alarm Management	included via EMS (grid monitoring, transformer, circuit breaker, drip pan, surge protection, ...)					
Transformer Protection	Multi-transformer protection relay (pressure, temperature, dielectric level measurement, gas detection)					
Measurement on the Low-Voltage Side	optional customer-specific transformer measurement					
SPD - EMS network	including Type 1					

¹: MSA in RMU design for use in customer-owned medium-voltage distribution networks; supplied without metering, protection, control, communication, or billing equipment.

²: Optional additional circuit breaker for separate disconnection of the A and B sides for maintenance and repair work; the transformer's rated power remains the limiting factor. When using two circuit breakers, power loss increases due to additional current flow through both breakers (instead of direct PV-BESS coupling).

VENSYS VENSKID HYBRID

Grid-connected applications





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