

Technical data

LIEBHERR

Liduro Power Port
LPO 100



94 kWh



16 - 125 A



-20 - 40 °C

Technical data

Batteries LPO 100

Gross energy content	94 kWh
Usable energy content	85 kWh
Technology	Lithium-ion battery (NMC)

Electrical power

Mains output LPO 100

Output powers

Peak power	110 kVA
Continuous power (S1)	55 kVA

Output voltage	400 V AC -5 %	three-phase
	230 V AC -5 %	single-phase

Output network form	TN
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Output frequency	50 Hz +/- 0,2 Hz
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Output connections	1 x CEE 125 A	three-phase	
	1 x CEE 63 A	three-phase	
	1 x CEE 32 A	three-phase	
	1 x CEE 16 A	three-phase	
	2 x 230 V	type F (standard)	optional: country-specific variants
	1 x 230 V	type F	in storage space

Mains input LPO 100

Input powers	22 kW (three-phase)	with connection CEE 32 A; type 2 (optional)
	11 kW (three-phase)	adapter to CEE 16 A required
	2,3 kW (single-phase)	adapter to Schuko (10 A) required
	The charging power is additionally adjustable via the control (according to charging port fuse).	

Input voltage	400 V +/- 10 %	with three-phase connection
	230 V +/- 10 %	with single-phase connection

Input connections	CEE 32 A		
	Type 2	up to 22 kW	from standard charging pole (optional)

Input network form	TN / IT
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Dimensions and weight LPO 100

Weight

Basic	1,700 kg
Drive (trailer mounted)	2,100 kg

Dimensions (L x W x H)

Basic	2,434 x 1,520 x 1,433 mm
Drive (trailer mounted)	3,903 x 2,031 x 1,899 mm

Subject to technical changes.

Trailer body LPO Drive

Chassis	Two-axle trailer, braked
Speed	80 km/h maximum permissible speed
Legal notice	Country regulations for speeds and combinations of towing vehicle and trailer must be observed.

Equipment

Control of generators	Available; further information in the manual
Operation with solar system	Possible; further information in the manual
Operating interface	Liebherr display DC 5 with touch operation, 12"
Storage space	275 liters, lockable storage space with cable holders and additional socket (230 V, type F)
Control panel cover	Lockable roller shutter (two steps)

Optional equipment

LPO Drive	The LPO is supplied with trailer chassis, which further increases the mobility of the energy storage unit. Scope of delivery: trailer chassis, lighting, warning signs for transport
Public charging package	Type 2 plug for charging at public AC charging stations and wallboxes with up to 22 kW
Country package	Country-specific charging sockets instead of the standard type F Schuko sockets. By default, all 230 V sockets are installed in type F design.
Special colours	Foiling of the side parts with customer-specific color; specification in CMYK or 3M foil number (100 series). Standard delivery is in Liebherr coloring (yellow).



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Environmental conditions

Operation

Temperature range for operation at maximum power	-20 °C to +40 °C	Automatic thermal management for heating or cooling the system.
Extended temperature range with reduced power	+40 °C to +50 °C	
Relative humidity	100 %	
Operating height	Up to 2,000 m above NN	
Protection class	IP 54	
Shock and vibration load	4 M 12	EN 60721-3-3
Corrosion protection	C 4 "Medium"	EN 12944

Storage

Storage temperature	-20 °C to +50 °C	
Relative humidity	100 %	
Other	The battery charge level must be ~50% and must be checked at regular intervals.	The LPO must not be stored fully charged.
Shock and vibration load	1 M 11	EN 60721-3-1

Transport

Transport temperature	-45 °C to +60 °C	
Relative humidity	100 %	
Transportation	Trailer, four lifting lugs and forklift lugs	

More information in the manual

Safety

RCD	Each output has its own type B residual current circuit breaker.
Insulation monitoring	Insulation fault detection at the outputs
Grounding	Connection for potential equalisation Earth spike required; according to chapter 4.1 DGUV 203-006
Commissioning	Commissioning possible with electrician according to DGUV 203-006
Water cooling	The water cooling ensures maximum performance at ambient temperatures up to 40 °C.
Water heating	The water heater provides an ideal operating temperature window even in cold temperatures.
Coolant	Water-glycol mixture maximum 50/50

More information in the manual

Subject to technical changes.

Legal notice

Local and national regulations regarding transportation, commissioning, operation, speed and combinations of towing vehicle and trailer must be observed.

