

Technical data

LIEBHERR

Liduro Power Port
LPO 100



94 kWh



16 – 125 A



Solar-ready

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
Power under specific operating situations	85 kVA under specific operating conditions*
Output voltage	400 V AC -5 % three-phase
	230 V AC -5 % single-phase
Output network form	TN
Output frequency	50 Hz +/- 0,2 Hz
Output connections	1 x CEE 125 A
	1 x CEE 63 A
	1 x CEE 32 A
	1 x CEE 16 A
	2 x CEE 16 A 230 V optional: adapter for country-specific variants
	1 x CEE 16 A 230 V 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 can also be precisely adjusted via the control system in amperes (in accordance with the 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 from standard charging pole (optional)
Input network form	TN / IT

Sound level	
Sound power level LWA (1m)	77 db(A)
Sound pressure level LpA (7m)	52 db(A)

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

* Performance specifications apply at ambient temperatures ≤ +15 °C without parallel charging. Battery and cooling water temperatures must be observed (cooling water temperature ≤ 30 °C at the start of load). All information provided without guarantee; a functional test under actual application conditions is recommended. 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 12" touch display
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 a trailer chassis, further increasing the mobility of the energy storage system 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.
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).



- GPS antenna
- Lifting lugs
- Roller shutter
- Lashing eyes
- Display
- Charge / discharge plug
- Forklift lugs
- Chassis LPO Drive
- Foiling in corporate colors with product code (standard colour: Liebherr yellow)

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Environmental conditions

Operation

Temperature range for operation at maximum power	-18 °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	3M11	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	1M11	EN 60721-3-1

Transport

Transport temperature	-45 °C to +60 °C	
Relative humidity	100 %	
Transportation	Trailer, four lifting lugs and forklift lugs	
Shock and vibration	2M4 with calibrated levels	DIN EN IEC 60721-3-2

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	Anti-freeze mix (Liebherr) – see spare parts catalogue

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.

