

HYBRID HB-Model

LXP-HB 3K/4K/5K Hybrid

90-450V
Battery voltage



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Brilliant choice for
hybrid solar energy
storage system

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LU X POWER ^{TEK}

Solar Input

	3K HB	4K HB	5K HB
Max. DC Input Power	6000W	7000W	8000W
DC Input Voltage Range	90-550V.d.c	90-550V.d.c	90-550V.d.c
Grid Full-load MPPT Voltage	150 - 500V.d.c	200 - 500V.d.c	250 - 500V.d.c
Start-up Voltage	120V.d.c	120V.d.c	120V.d.c
MPPT Number	2	2	2
String per MPPT	1/1	1/1	1/1
Max. DC Input Current	11A/11A	11A/11A	11A/11A

Battery Input/Output

	Lead-Acid, Li-on etc.	Lead-Acid, Li-on etc.	Lead-Acid, Li-on etc.
Compatible Battery Type	Lead-Acid, Li-on etc.	Lead-Acid, Li-on etc.	Lead-Acid, Li-on etc.
Nominal Battery Voltage	250V.d.c	250V.d.c	250V.d.c
Battery Voltage Range	90 - 450V.d.c	90 - 450V.d.c	90 - 450V.d.c
Max. Charge/Discharge Current	20A/20A	20A/20A	20A/20A
Max. Charge/Discharge Power	5000W/5000W	5000W/5000W	5000W/5000W
Charging Curve	3-stages	3-stages	3-stages

AC Input/Output

	3000W	4000W	5000W
Nominal AC Input/Output Power	3000W	4000W	5000W
Nominal AC Input/ Output Current	13A	17.5A	21.7A
Max. AC Input/ Output Current	16.5A	22A	27A
Nominal AC Voltage	230V	230V	230V
Optional AC Voltage Range	183~264V	183~264V	183~264V
Nominal AC Frequency	50/60Hz	50/60Hz	50/60Hz
AC Frequency Range	45-55Hz/55-65Hz	45-55Hz/55-65Hz	45-55Hz/55-65Hz
Power Factor		>0.99@rated power 0.8lagging-0.8 leading Adjustable	
THDI	<3%	<3%	<3%

UPS Output - with Battery

	3000W	4000W	5000W
UPS Nominal Power	3000W	4000W	5000W
UPS Nominal Voltage	230Vac	230Vac	230Vac
UPS Opt Voltage Type	120/208/240Vac	120/208/240Vac	120/208V/240Vac
UPS Nominal Frequency	50/60Hz	50/60Hz	50/60Hz
UPS Nominal Current	13A	17.5A	21.7A
Peak Power	3800W, 30s	5000W, 30s	6200W, 30s
THDV	<3%@R-load	<3%@R-load	<3%@R-load
Switching Time	<0.01s	<0.01s	<0.01s

Efficiency

	>99%	>99%	>99%
MPPT Efficiency	>99%	>99%	>99%
Europe Efficiency	96.3%	96.5%	96.3%
Max. Efficiency	97.5%	97.5%	97.5%
Max. Charge/Discharge Efficiency	97%/96.6%	97%/96.6%	97%/96.6%

Protection

	Yes	Yes	Yes
Reverse Polarity Protection	Yes	Yes	Yes
Over Voltage, Over Current	Yes	Yes	Yes
Anti-islanding Protection	Yes	Yes	Yes
AC Short-circuit Protection	Yes	Yes	Yes
Leakage Current Protection	Yes	Yes	Yes
Ground Fault Monitoring	Yes	Yes	Yes
Grid Monitoring	Yes	Yes	Yes
Ingress Protect Degree	IP65	IP65	IP65
DC Switch	Integrated	Integrated	Integrated

General Data

	455 / 476 / 181	455 / 476 / 181	455 / 476 / 181
Dimensions (W/H/D)	455 / 476 / 181	455 / 476 / 181	455 / 476 / 181
Weight	18 kg	18 kg	18 kg
Topology	Transformerless	Transformerless	Transformerless
Cooling Concept	Natural Convection	Natural Convection	Natural Convection
Relatively Humidity	0-100%	0-100%	0-100%
Altitude	<2000m	<2000m	<2000m
Noise Emission	<25dB	<25dB	<25dB
Standby Consumption	<10W	<10W	<10W
Display/Communication Interface	LCD/LED/RS485/Wi-Fi/CAN	LCD/LED/RS485/Wi-Fi/CAN	LCD/LED/RS485/Wi-Fi/CAN
Standard Warranty	5years	5years	5years

Certification & Approvals

AS 4777, VDE-AR-N4105, VDE0126, G83, G59
IEC62109-1-2, IEC62040, EN61000-6-1, EN61000-6-2, EN61000-6-3