

Hybrid Inverter

LXP3-6k

LU X POWER^{TEK}



- Single phase / Unbalanced 3-Phase. Paralleling up to 10 units
- Intelligent charge feature
 - Weather forecast compensation.
 - Update electricity price automatically.
 - To economize charging / discharging schedule automatically.
- Unique monitoring platform
 - Free APPs on smartphone (Android / iOS) & PC (Web)
- Integrated UPS module
 - On / off grid seamless switching under 20ms
- Wide battery compatible list
 - Plug & Play (AC and PV port)

NOTE

Equipment Protection Level: IP65

Intelligent charge UK only for now, support regional customization



Specification

Your Reliable Energy Solution Partner

INPUT (PV DC)	LXP 3k	LXP 3.6k / 4k	LXP 4.6k / 5k	LXP 6k
Max. PV array power	6600W	7000W	8000W	8000W
Rated DC input voltage	360Vdc	360Vdc	360Vdc	360Vdc
DC input voltage range	100 to 550Vdc	100 to 550Vdc	100 to 550Vdc	100 to 550Vdc
MPP voltage range	120 to 500Vdc	120 to 500Vdc	120 to 500Vdc	120 to 500Vdc
Min. input voltage / initial input voltage	100Vdc / 120 Vdc	100Vdc / 120 Vdc	100Vdc / 120 Vdc	100Vdc / 120 Vdc
Number of independent MPP inputs	2 (A : 1 ; B : 1)	2 (A : 1 ; B : 1)	2 (A : 1 ; B : 1)	2 (A : 1 ; B : 1)
Max. DC input current	13.5A	13.5A	13.5A	13.5A
Max. DC short-circuit current input per MPPT	A: 20A ; B : 20A	A: 20A ; B : 20A	A: 20A ; B : 20A	A: 20A ; B : 20A
Battery				
Compatible battery type	Lithium-ion / Lead-Acid	Lithium-ion / Lead-Acid	Lithium-ion / Lead-Acid	Lithium-ion / Lead-Acid
Rated battery voltage	48Vdc	48Vdc	48Vdc	48Vdc
Battery voltage range	40 to 60Vdc	40 to 60Vdc	40 to 60Vdc	40 to 60Vdc
Max. charging / discharging current	66A / 66A	80A / 80A	80A / 80A	80A / 80A
Max. charging / discharging power	3600W	4000W	4000W	4000W
Charging method (Lead acid)	3 stage	3 stage	3 stage	3 stage
Max. charging voltage	59Vdc	59Vdc	59Vdc	59Vdc
Suggest battery capacity	2 to 20kWh	2 to 20kWh	2 to 20kWh	2 to 20kWh
Grid				
Rated AC output power (@230V, 50Hz / 60Hz / 240V, 50Hz / 60Hz)	3000W	3600W / 4000W	4600W / 5000W	6000W
Rated AC voltage	230Vac	230Vac	230Vac	230Vac
AC voltage range	180 to 270Vac	180 to 270Vac	180 to 270Vac	180 to 270Vac
Rated grid frequency	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz
Operation frequency range at grid frequency (50Hz / 60Hz)	45 to 55Hz / 55 to 65Hz	45 to 55Hz / 55 to 65Hz	45 to 55Hz / 55 to 65Hz	45 to 55Hz / 55 to 65Hz
power factor at rated power / adjustable displacement power	1 / 0.8	1 / 0.8	1 / 0.8	1 / 0.8
THDi	< 3%	< 3%	< 3%	< 3%
UPS				
UPS Max. Output Power without PV	3000W	3600W / 4000W	4000W	4000W
UPS Max. Output Power with PV	3000W	3600W / 4000W	4000W	6000W
UPS rated output voltage	230Vac	230Vac	230Vac	230Vac
UPS rated output frequency	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz
Peak power without PV	4500W , 30s	4500W , 30s	4500W , 30s	4500W , 30s
THDv (at linear load)	< 5%	< 5%	< 5%	< 5%
Switching time	< 20ms	< 20ms	< 20ms	< 20ms
Efficiency				
Max. Efficiency	97.30%	97.30%	97.30%	97.30%
Battery charging / discharging efficiency	94.50%	94.50%	94.50%	94.50%
Protection				
PV reverse polarity protection	YES	YES	YES	YES
Over current/voltage protection (according to IEC 60664-1)	III/II	III/II	III/II	III/II
Anti-islanding protection	YES	YES	YES	YES
AC short-circuit current protection	YES	YES	YES	YES
Leakage current protection	YES	YES	YES	YES
Ground fault monitoring	YES	YES	YES	YES
Grid monitoring	YES	YES	YES	YES
Ingress protection rating	IP65 / NEMA4X	IP65 / NEMA4X	IP65 / NEMA4X	IP65 / NEMA4X
DC Switch	YES	YES	YES	YES
General				
Dimensions (W / H / D) (mm)	455 / 476 / 181	455 / 476 / 181	455 / 476 / 181	455 / 476 / 181
Weight	20kg	20kg	20kg	20kg
Display & communication interface	LCD , RS485 , Wi-Fi , CAN	LCD , RS485 , Wi-Fi , CAN	LCD , RS485 , Wi-Fi , CAN	LCD , RS485 , Wi-Fi , CAN
Topology	HF	HF	HF	HF
Operating environment temperature range (°C)	-25 to 60°C	-25 to 60°C	-25 to 60°C	-25 to 60°C
Cooling method	Nature convection	Nature convection	Nature convection	Nature convection
Max. permissible value for relatively humidity	100%	100%	100%	100%
Noise emission	< 25dB	< 25dB	< 25dB	< 25dB
standby consumption	< 5W	< 5W	< 5W	< 5W
Max. operating altitude above MSL (mean sea level)	< 4000m	< 4000m	< 4000m	< 4000m
Standards & Certifications				
AS4777.2 , NRS097 , EN50549 , C10 / C11 , CEIO-21 , CEIO-16 , VDE-AR-N 4105 , UTE C15-712-1 / XPE C15-712-3 ; VDF, 698 , 699 , IEC62109 , IEC62040 , IEC62477 , EN61000 , IEC60068				