

CERTIFICATE

of conformity with the following European Directives

Low Voltage Directive 2014/35/EU

This certifies that below described products of the applicant:

Upower Electric Co., Ltd

4th Floor, Block A, Huafeng Zhigu, No. 62, Yinhe Road, Heao Community, Yuanshan Street, Longgang District, Shenzhen, Guangdong, China

comply to the essential requirements of the above mentioned European Directive and the following standards, taking into account the German national deviations:

Product(s): Off-Grid Energy Storage System & Portable Suitcase Energy Storage System

Model type(s): UBird-X-Mini-30E, UBird-X-Plus-50E, UFox-Mini-30E, UFox-Plus-30E, UFox-Plus-35E, UFox-Plus-50E, UFox-WP-35E, UFox-WP-50E

This certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT GmbH. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.

Certification program: P31-VA-01 Rev. 02 / 04.20
Certification fundamental(s): EN 62109-1:2010, EN 62109-2:2011, EN 62477-1:2012+A1:2017
Registered no.: 44 799 23 406749 - 279
Report no.: 492012207.001, 492012208.001
File no.: PVP05002/22E-05, PVP05002/22E-06



TÜV NORD CERT GmbH
Certification Body
Energy Storage System

Essen, 2023-08-30

TÜV NORD CERT GmbH

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Please also pay attention to the information stated overleaf.

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Description of product(s):

Model or Type designation	UBird-X-Mini-30E	UBird-X-Plus-50E
Battery terminal		
Rated Voltage [Vd.c.]	51.2	
MPP Voltage Range [Vd.c.]	44.8~57.6	
Max. Current [Ad.c.]	67	100
Internal Battery Capacity [kWh]	3.43	5.12
Internal Battery Type	LiFePO4	
Back-up output terminal		
Rated Output Voltage [Va.c.]	220/230/240	
Rate Frequency [Hz]	50/60	
Max. Output Power [W]	3000	5000
Max. Output Current [Aa.c.]	13.7	22.7
On-grid input terminal		
Grid Voltage Range [Va.c.]	170~280	
Frequency [Hz]	50/60	
Max. Current [Aa.c.]	13.7	22.7
PV input terminal		
Max. PV Power [W]	1800	4500
Max. PV Voltage [Vd.c.]	145	



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MPPT Voltage Range [Vd.c.]	60~115	
Max. PV Isc [Ad.c.]	30	80
System:		
Ingress Protection	IP43	
Operating Temperature Range	0-50°C	

Model or Type designation	UFox-Mini-30E	UFox-Plus-30E
Battery terminal		
Rated Voltage [Vd.c.]	51.2	
MPP Voltage Range [Vd.c.]	44.8~57.6	
Max. Current [Ad.c.]	67	100
Internal Battery Capacity [kWh]	3.43	5.12
Internal Battery Type	LiFePO4	
Back-up output terminal		
Rated Output Voltage [Va.c.]	220/230/240	
Rate Frequency [Hz]	50/60	
Max. Output Power [W]	3000	3000
Max. Output Current [Aa.c.]	13.7	13.7
On-grid input terminal		
Grid Voltage Range [Va.c.]	170~280	
Frequency [Hz]	50/60	



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Max. Current [Aa.c.]	13.7	13.7
PV input terminal		
Max. PV Power [W]	1800	1800
Max. PV Voltage [Vd.c.]	145	
MPPT Voltage Range [Vd.c.]	60~115	
Max. PV Isc [Ad.c.]	30	30
System:		
Ingress Protection	IP20	
Operating Temperature Range	0-50°C	

Model or Type designation	UFox-Plus-35E	UFox-Plus-50E
Battery terminal		
Rated Voltage [Vd.c.]	51.2	
MPP Voltage Range [Vd.c.]	44.8~57.6	
Max. Current [Ad.c.]	100	100
Internal Battery Capacity [kWh]	5.12	5.12
Internal Battery Type	LiFePO4	
Back-up output terminal		
Rated Output Voltage [Va.c.]	220/230/240	
Rate Frequency [Hz]	50/60	
Max. Output Power [W]	3500	5000



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Max. Output Current [Aa.c.]	16	22.7
On-grid input terminal		
Grid Voltage Range [Va.c.]	170~280	
Frequency [Hz]	50/60	
Max. Current [Aa.c.]	16	22.7
PV input terminal		
Max. PV Power [W]	4500	6000
Max. PV Voltage [Vd.c.]	450	
MPPT Voltage Range [Vd.c.]	120~430	
Max. PV Isc [Ad.c.]	22	22
System:		
Ingress Protection	IP20	
Operating Temperature Range	0-50°C	

Model or Type designation	UFox-WP-35E	UFox-WP-50E
Battery terminal		
Rated Voltage [Vd.c.]	51.2	
MPP Voltage Range [Vd.c.]	44.8~57.6	
Max. Current [Ad.c.]	100	100
Internal Battery Capacity [kWh]	10.24	10.24
Internal Battery Type	LiFePO4	



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Back-up output terminal		
Rated Output Voltage [Va.c.]	220/230/240	
Rate Frequency [Hz]	50/60	
Max. Output Power [W]	3500	5000
Max. Output Current [Aa.c.]	16	22.7
On-grid input terminal		
Grid Voltage Range [Va.c.]	170~280	
Frequency [Hz]	50/60	
Max. Current [Aa.c.]	16	22.7
PV input terminal		
Max. PV Power [W]	4500	6000
Max. PV Voltage [Vd.c.]	450	
MPPT Voltage Range [Vd.c.]	120~430	
Max. PV Isc [Ad.c.]	22	22
System:		
Ingress Protection	IP44	
Operating Temperature Range	0-50°C	

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



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