

## DATASHEET

#### Three-Phase Hybrid/AC Inverter

H3-5.0-E / 6.0 / 8.0 / 10.0 /12.0 AC3-5.0-E / 6.0 / 8.0 / 10.0

## 3-PHASE

### HYBRID/AC INVERTER

Harness the power of the sun day and night with the ground-breaking range of Hybrid & AC inverters from Fox ESS.

Full of advanced features and compatible with our very own range of high-voltage batteries, the hybrid range from Fox ESS. It is a new class of Inverter.





Fox ESS storage solutions are available with advanced and intuitive app based remote control and monitoring functionality.





#### **Easy Installation**

Flexible configuration, plug and play set-up, built-in fuse protection.



#### High Voltage

Includes high-voltage batteries for maximum round-trip effciency.



#### **IP65 Rated**

Engineered to last with maximum flexibility. Suitable for outdoor installation.



#### Remote Monitoring

Monitor your system remotely via smartphone app or web portal.



# EASY UPGRADE



Easily expand your system by just add extra batteries.
There are three battery series you can choose,
which enables a storage capacity of up to 33.24 kWh.
There are Max. 10 storage inverters can be connected
in parallel to allow you enlarge the system scale
base on different installation requirement.

For more about the Fox ESS range, visit:

WWW.FOX-ESS.COM









#### TECHNICAL SPECIFICATIONS

		H3-5.0-E AC3-5.0-E	H3-6.0-E AC3-6.0-E	H3-8.0-E AC3-8.0-E	H3-10.0-E AC3-10.0-E	H3-12.0-		
Section   Processing   March   Processing   March   Processing   March   Processing   March   Processing   March	nly for hybrid)							
Info	ower [W]	A:4000 B:4000	A:4500 B:4500	A:8000 B:5000	A:8000 B:5000	A:9000 B:600		
Seate Supply Value For International Content of International Content	oltage [V]			1000				
MPT Operating Vallage Inaque IV)	ıt Voltage [V]			160				
Anii Ingoli Ceres (E)   14/14	Voltage [V]			720				
Ass Short-Court Current (p)	ting Voltage Range [V]			160~950				
1.0. of Inforgement MPT Trackers	urrent [A]	14/14	14/14	26/14	26/14	26/14		
Marie   Mari	ircuit Current [A]	16/16	16/16	32/16	32/16	32/16		
Marie   Mari	endent MPP Trackers			2				
September   Sept		1/1	1/1		2/1	2/1		
State   Stat	·	•	, 		•	<u>, , , , , , , , , , , , , , , , , , , </u>		
States   1887   1897				Lithium Battery (LEP)				
Alse Charge/Discharge Current [4]								
CANICONNUMERON   CANI								
Calmant As Country (Fotion)   10000			CANIC		. 1. 22.46)			
Max. A. Cinjut Proset   Ya)			CAN(Cor	nmunicate with inverter), RS485 (Upgr	ade BIVIS)			
Max. A.C Input Current (per phase)  A								
ated Output Fewer (W)	it Power [VA]	10000	12000	16000	16000	16000		
Name	ıt Current (per phase) [A]	15.2	18.2	24.2	24.2	24.2		
take Output Current (per phase) [A]	t Power [W]	5000	6000	8000	10000	12000		
Alse Output Current (per phase) [A]	Apparent Power [VA]	5500	6600	8800	11000	13200		
Max. Output Current [per phase] [A]						17.4		
### A PRIVATE						21.2		
Solidar   Soli		0.0	10.0			21.2		
Marie   Mari								
NO     NO   NO   NO   NO   NO   NO								
Max. Output Apparent Power [VA]			1 (		ing )			
Ass. Output Apparent Power (FOa)   No.   10000   100				<3 @Rated Power				
ceak Output Apparent Power (60s) [VA)         10000         12000         14000         15000           daze. Current (per phase) [A]         7.2         8.7         1.6         14.5           atted Output Variege [V]         \$3,1/MPE 400/230         30.00           stated Output Frequency [Hz]         \$0,650         50,650           work Factor         1 (Adjustable from 0.8 leading to 0.8 leaging to 0.8 leading to 0.								
Abac Current (per phase) [A] 7.2 8.7 11.6 14.5 14.5 14.5 14.6 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5	Apparent Power [VA]	5000	6000	8000	10000	12000		
stack do torput Voltage [V]         3d/NFE 400/303           stack do torput Frequency [Hz]         50/60           ower Factor         16 Adjustable from Sel seding to 0.8 lawging > 1           HDV (linear Load) [%]         3c Rated Power           Witch (linear Load) [%]         3c Rated Power           Witch (linear Load) [%]         97.30           Jaw. Efficiency [%]         98.00           Jaw. Efficiency [%]         98.50           Jaw. Efficiency [%]         98.50           Jaw. Efficiency [%]         99.00           Bart Date (linear) [%]         99.00           Bart Date (linear) [%]         YES           State (linear) [%]         YES           State (linear) [%]         YES           C Everence Polarity Protection         YES           C Overcurent/Overvoltage Protection         YES           State (linear	Apparent Power (60s) [VA]	10000	12000	14000	15000	15000		
### Description of Protection	t (per phase) [A]	7.2	8.7	11.6	14.5	17.4		
### A Part	t Voltage [V]			3L/N/PE 400/230				
May								
### ### ### ### ### ### ### ### ### ##			1/		ing )			
Witch time [ms]			1(		ing /			
######################################								
### ### ### ### ### ### ### ### ### ##	<sub>i</sub> ms]			<20				
Max. Efficiency   %   98.00								
Max. Battery Charge Efficiency   198.50   198.								
EV to BAT) (@full load) [%]         98:50           Ada. Battery Discharge Efficiency         97:00           BAT to AC) (@full load) [%]         97:00           ROTECTION           Use Sesidual Current Monitoring         YES           Colspan="2">C				98.00				
Agricult   Geoleman				98.50				
### To AC) (@full load) [%]								
National Monitoring   YES				97.00				
Nation   Natural   Natur								
Residual Current Monitoring   YES   Reverse Polarity Protection								
C Reverse Polarity Protection	onitoring			YES				
Inti-islanding Protection         YES           IC Short-circuit Protection         YES           IC Overcurrent/Overvoltage Protection         YES           IC Switch         YES           In Company         Optional           In Company         YES           In William Augustions (WxHxD) [mm]         Wall-Mounted           In Wall-Mounted         Wall-Mounted           In Wall-Mounted         Wall-Mounted           In Wall-Mounted         Wall-Mounted           In Wall-Mounted         Augustion (Wall-Mounted           In Wall-Mounted         Augustion (Wall-Mounted           In Wall-Mounte	rent Monitoring			YES				
C Short-circuit Protection         YES           C Overcurrent/Overvoltage Protection         YES           C Switch         YES           PD         DC: Type II, /AC: Type II           FCI         Optional           FEMERAL DATA           viewph [kg]         28           viewph [kg]         28           vistallation         Wall-Mounted           opology         Transformerless           ooling Method         Natural         FAN CC           oise Emission [db]         35         45           fax. Operating Altitude [m]         2000         25 ~ 60           perating Temperature Range [*C]         -25 ~ 60         25 ~ 60           umidity ( No Condensation ) [%]         0 ~ 100         100           rotection Degree         IP65         100           tandby consumption [W]         < 15	Polarity Protection			YES				
C Short-circuit Protection         YES           C Overcurrent/Overvoltage Protection         YES           C Switch         YES           PD         DC: Type II, /AC: Type II           FCI         Optional           FEMERAL DATA           viewph [kg]         28           viewph [kg]         28           vistallation         Wall-Mounted           opology         Transformerless           ooling Method         Natural         FAN CC           oise Emission [db]         35         45           fax. Operating Altitude [m]         2000         25 ~ 60           perating Temperature Range [*C]         -25 ~ 60         25 ~ 60           umidity ( No Condensation ) [%]         0 ~ 100         100           rotection Degree         IP65         100           tandby consumption [W]         < 15	g Protection			YES				
C Overcurrent/Overvoltage Protection         YES           C Switch         YES           PD         DC: Type II, /AC: Type II           FCI         Optional           FERFERAL DATA           Veight [kg]         449*519*198           Veight [kg]         28           vistaliation         Wall-Mounted           opology         Transformerless           ooling Method         Natural         FAN Co           vise Emission [db]         35         45           dax. Operating Altitude [m]         2000         25 ~ 60           umidity ( No Condensation ) [%]         0 ~ 100         100           rotection Degree         IP65         100           tandby consumption [W]         < 15         45								
C Switch YES PD DC: Type II, /AC: Type II FCI Optional  FERRAL DATA  Imensions (WxHxD) [mm] 449*519*198  Veight [kg] 28 Installation Wall-Mounted opology Transformerless  ooling Method Natural FAN Co loise Emission [db] 35 49  Jax. Operating Altitude [m] 2000  Imperating Temperature Range [*C*] -25 ~ 60  Immidity ( No Condensation ) [%] 0 ~ 100  Imperating Temperature Range [*C*] -25 ~ 60  Immidity ( No Condensation ) [%] -25 ~ 60  Immidity ( No Conde								
PD         DC: Type II, /AC: Type II           FCI         Optional           ENERAL DATA           ENERAL DATA           timensions (WxHxD) [mm]         449*519*198           veight [kg]         28           stallation         Wall-Mounted           opology         Transformerless           vooling Method         Natural         FAN Cologies Emission [db]         35         45           Aax. Operating Altitude [m]         2000           operating Temperature Range [°C]         -25 ~ 60           dumidity ( No Condensation ) [%]         0 ~ 100           trocection Degree         IP65           tandby consumption [W]         < < <th colspan="2">1P65</th>	1P65		,					
FCI Optional  FENERAL DATA  Simensions (WxHxD) [mm]								
ENERAL DATA           simensions (WxHxD) [mm]         449*519*198           veight [kg]         28           statallation         Wall-Mounted           opology         Transformerless           ooling Method         Natural         FAN Co           loise Emission [db]         35         45           Max. Operating Altitude [m]         2000         25 ~ 60           umidity ( No Condensation ) [%]         0 ~ 100         100           rotection Degree         IP65         1965           tandby consumption [W]         < 15								
simensions (WxHxD) [mm]     449*519*198       veight [kg]     28       stallation     Wall-Mounted       opology     Transformerless       ooling Method     Natural     FAN Co       loise Emission [db]     35     49       Max. Operating Altitude [m]     2000       operating Temperature Range [*C]     -25 ~ 60       umidity ( No Condensation ) [%]     0 ~ 100       rotection Degree     IP65       tandby consumption [W]     < 15				Optional				
Veight [kg]         28           Installation         Wall-Mounted           opplogy         Transformerless           vooling Method         Natural         FAN Co           vioise Emission [db]         35         45           Max. Operating Altitude [m]         2000         25 ~ 60           umidity ( No Condensation ) [%]         0 ~ 100           rotection Degree         IP65           tandby consumption [W]         < 15	TA							
Asstallation         Wall-Mounted           opplogy         Transformerless           cooling Method         Natural         FAN Co           loise Emission [db]         35         49           Max. Operating Altitude [m]         2000         25 ~ 60           umidity ( No Condensation ) [%]         0 ~ 100           rotection Degree         IP65           tandby consumption [W]         < 15	WxHxD) [mm]			449*519*198				
Asstallation         Wall-Mounted           opplogy         Transformerless           cooling Method         Natural         FAN Co           loise Emission [db]         35         49           Max. Operating Altitude [m]         2000         25 ~ 60           umidity ( No Condensation ) [%]         0 ~ 100           rotection Degree         IP65           tandby consumption [W]         < 15				28				
opology         Transformerless           poling Method         Natural         FAN Co           loise Emission [db]         35         45           dax. Operating Altitude [m]         2000           sperating Temperature Range [°C]         -25 ~ 60           umidity ( No Condensation ) [%]         0 ~ 100           rotection Degree         IP65           tandby consumption [W]         <15				Wall-Mounted				
pooling Method         Natural         FAN Co           loise Emission [db]         35         45           flax. Operating Altitude [m]         2000         -25 ~ 60           sperating Temperature Range [°C]         -25 ~ 60         -25 ~ 60           umidity ( No Condensation ) [%]         0 ~ 100								
Ass. Operating Altitude [m]   2000   25 ~ 60   25 ~ 60   25   25 ~ 60   25	had		Natural	Transformeriess	FAN Coolin	7		
Max. Operating Altitude [m]     2000       operating Temperature Range [°C]     -25 ~ 60       umidity ( No Condensation ) [%]     0 ~ 100       rotection Degree     IP65       tandby consumption [W]     <15								
perating Temperature Range [°C ]         -25 ~ 60           umidity ( No Condensation ) [%]         0 ~ 100           rotection Degree         IP65           tandby consumption [W ]         <15			35		45			
unidity ( No Condensation ) [%]         0 ~ 100           rotection Degree         IP65           randby consumption [W]         <15								
rotection Degree IP65 candby consumption [W] <15	mperature Range [°C ]			-25 ~ 60				
rotection Degree IP65 candby consumption [W] <15	o Condensation ) [%]			0~100				
tandby consumption [W ] <15				IP65				
ommunication 2*RS485, DRM, Ripple Control, USB	ion							
LCD, App, Website				LCD, App, Website				
TANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)	COMPLIANCE (MORE AVAILABLE UPON REQUEST)							
fety EN 62109-1, EN 62109-2, EN 62477-1			E	EN 62109-1, EN 62109-2, EN 62477-1				
MC IEC 61000-6-1, IEC 61000-6-3				IEC 61000-6-1, IEC 61000-6-3				
rid Regulation EN50549-1, C10/11, VDE-AR-N 4105, G98, CEI 0-21	ion		EN5054	9-1, C10/11, VDE-AR-N 4105, G98, CEI	0-21			

<sup>\*</sup> More technical characteristics are avaliable on demand and customized.

[1] Minimum operation battery voltage is 150V.

