

Power Beast

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM



DC & AC COUPLE SOLUTION

PV * EPS * Genset * EV Charger



SEAMLESS SWITCHING

≤10ms, without ATS



FLEXIBLE EXPANSION

On-Grid: Up to 3.125MW / 7.35MWh
Off-Grid: Up to 1.25MW / 2.94MWh



IP65 RATED

Warm up function



au.fox-ess.com

TECHNICAL SPECIFICATIONS

MODEL	H3-50-Plus	H3-60-Plus	H3-75-Plus	H3-80-Plus	H3-100-Plus	H3-125-Plus
PV INPUT						
Max. Array Power [kW]	100	120	150	160	200	250
Max. Input Power [kW]	100	120	150	160	200	250
Withstand Voltage [V]				1000		
Input Voltage Range [V]				180 ~ 950		
Max. MPPT Input Current [A]				40		
Max. MPPT Short Circuit Current [A]				50		
MPPT Voltage Range [V]				180 ~ 850		
Start-up Voltage [V]				180		
No. of MPP Trackers	4	4	8	8	8	8
Strings per MPP Tracker				2		
BATTERY SPECIFICATION						
Battery Type				LFP (LiFePO ₄)		
Voltage Range [V]				180 ~ 950		
Max. Charging/Discharging Current [A]				240 (80+80+80)		
Battery Port				3		
Communication				CAN*3		
AC OUTPUT (GRID)						
Nominal AC Power [kW]	50	60	75	80	100	125
Max. AC Output Power [kVA]	55	66	82.5	88	110	137.5
Rated AC Output Current (Per Phase) [A]	76	91.2	113.9	121.6	152	190
Max. AC Output Current (Per Phase) [A]	83.6	100.3	125.4	133.7	167.2	198.5
Nominal AC Voltage [V]				380/400, 3W+N+PE or 3W+PE		
AC Voltage Range [Un]				0.8 ~ 1.2		
Nominal AC Frequency [Hz]				50/60		
Frequency Range [Hz]				50/60, ±5		
Power Factor				0.8 Leading ~ 0.8 Lagging		
THDi [%]				<3 @Rated Power		
AC INPUT (GRID/GENERATOR)						
Max. AC Input Power [kVA]				207		
Max. Bypass Current [A]				300		
Nominal AC Voltage [V]				380/400, 3W+N+PE or 3W+PE		
Frequency Range [Hz]				50/60, ±5		
EPS OUTPUT (LOAD)						
Max. AC Output Power [kVA]	55	66	82.5	88	110	137.5
Peak AC Output Power [kVA] (10s)				155		
LRA Current [A]				300		
Nominal AC Voltage [V]				380/400, 3W+N+PE or 3W+PE		
Nominal AC Frequency [Hz]				50/60		
Switching Time [ms]				<10		
THDv [%]				<3 @Rated Power		
EFFICIENCY						
European Efficiency [%]				98.1		
Max. Efficiency [%]				98.5		
PROTECTION						
DC Input Switch				Yes		
Battery Reverse Polarity				Yes		
PV Reverse Polarity				Yes		
AC Overcurrent Protection				Yes		
AC Output Short Circuit Protection				Yes		
AC/DC Surge Protection				Class II		
ISO Detection				Yes		
Residual Current Detection				Yes		
Ground Fault Detection				Yes		
AFCI				Yes		
Terminal Overtemperature Protection				Yes		
String Current Detection				Yes		
GENERAL SEPECIFICATION						
Dimensions (W*H*D) [mm]				730*1060*305		
Weight [kg]	115	115	120	120	120	120
Operating Temperature [°C]				-30 ~ 60		
Cooling Method				Smart Air Cooling		
Operating Altitude [m]				4000		
Humidity [%]				0 ~ 100		
Noise [dB]				<70		
Standby Consumption [W]				<60		
DC-Link EV Charger Ready [kW]				20 ~ 50		
Ingress Protection (IP) Rating				IP65		
Topology				Non-Isolation		
Display				LED, LCD, Wi-Fi+APP		
Communication Ports				USB / RS485 / Bluetooth / Wi-Fi+LAN / 4G(Optional) / CAN		

TECHNICAL SPECIFICATIONS

MODEL	CQ7	CQ7	CQ7	CQ7	CQ7	CQ7	CQ7	CQ7	CQ7	CQ7	CQ7
	-L4	-L5	-L6	-L7	-L8	-L9	-L10	-L11	-L12	-L13	-L14
	CQ7	CQ7	CQ7	CQ7	CQ7	CQ7	CQ7	CQ7	CQ7	CQ7	CQ7
	-L4 (w)	-L5 (w)	-L6 (w)	-L7 (w)	-L8 (w)	-L9 (w)	-L10 (w)	-L11 (w)	-L12 (w)	-L13 (w)	-L14 (w)
ELECTRICAL CHARACTERISTICS											
Battery Type	LFP (LiFePO ₄)										
Battery Module [CQ7-M/CQ7-M (w)]*	1										
Battery Module [CQ7-S/CQ7-S (w)]*	3	4	5	6	7	8	9	10	11	12	13
Nominal Capacity [kWh]	27.84	34.80	41.76	48.72	55.68	62.64	69.60	76.56	83.52	90.48	97.44
Usable Capacity [kWh]	27.84	34.80	41.76	48.72	55.68	62.64	69.60	76.56	83.52	90.48	97.44
Nominal Voltage [V]	230.4	288.0	345.6	403.2	460.8	518.4	576.0	633.6	691.2	748.8	806.4
Nominal Power [kW]	18.43	23.04	27.65	32.26	36.86	41.47	46.08	50.69	55.30	59.90	64.51
Operating Voltage [V]	104.4 ~ 919.8										
Max. Charge/Discharge Current [A] ¹	80										
Battery Pack Round-Trip Efficiency [%] ²	>95										
Depth of Discharge [%]	100										
Communication	CAN										
Display	CQ7-S/CQ7-S (w): LED*1, CQ7-M/CQ7-M (w): LED*6										
Scalability	Max. 14 Modules in Series										
OPERATING CONDITIONS											
Installation Location	Outdoor/ Indoor (Stand)										
Operating Temperature [°C]	Charge: 0 ~ 55, Discharge: -10 ~ 55										
Operating Temperature [°C] (warm up function on, optional) ³	Charge: -25 ~ 55, Discharge: -25 ~ 55										
Storage Temperature [°C]	-10 ~ 50										
Cooling Method	Natural Convection										
Humidity [%]	5 ~ 95 (No Condensation)										
Altitude [m]	Max. 3,000										
PROTECTION											
Fire Protection Function	YES										
MECHANICAL CHARACTERISTICS											
Dimensions (W*D*H) [mm]	660*360										
	*730	*885	*1040	*1195	*1350	*1505	*1660	*1815	*1970	*2125	*2280
Weight [kg] (±5%)	206.5	257.0	307.5	358.0	408.5	459.0	509.5	560.0	610.5	661.0	711.5
CERTIFICATES											
Safety	IEC 62619, IEC 63056, IEC 62477-1, IEC 62040, UL 9540A, CE										
EMC	IEC 61000-6-1/2/3/4										
Transportation	UN38.3										
Ingress Protection	IP65										
MANUFACTURE											
Country of Manufacture	China										

*CQ7-S/CQ7-S (w) is the battery module, and CQ7-M/CQ7-M (w) includes system controller and battery module.
CQ7-M/CQ7-M (w) contains the controller of the entire system, so each system must have 1 CQ7-M/CQ7-M (w).
Ensure that each system has only 1 CQ7-M/CQ7-M (w) and a maximum of 13 CQ7-S/CQ7-S (w).
For CQ7-Lx, only CQ7-M & CQ7-S modules shall be stacked. For CQ7-Lx (w), only CQ7-M (w) & CQ7-S (w) modules shall be stacked.

*1, The current is affected by temperature, cell voltage and SOC.
*2, @25°C, 0.3C charging/discharging.
*3, Warm up function is available for CQ7-L2 (w), CQ7-L3 (w), CQ7-L4 (w), CQ7-L5 (w), CQ7-L6 (w), CQ7-L7 (w), CQ7-L8 (w), CQ7-L9 (w), CQ7-L10 (w), CQ7-L11 (w), CQ7-L12 (w), CQ7-L13 (w), CQ7-L14 (w).



FOXESS AUSTRALIA PTY LTD

-  53 Willow Avenue, Springvale VIC 3171, Australia
-  au.fox-ess.com
-  service.au@fox-ess.com
-  +61 1300 377 369