

# XO HYBRID STORAGE

## TECHNICAL SPECIFICATIONS /



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XO HYBRID STORAGE MODEL	XS 5+	XS 7.5+	XS 10+	XS 12.5+	XS 15+	XS 17.5+
NOMINAL BATTERY CAPACITY IN KWH	5	7.5	10	12.5	15	17.5
DEPTH OF DISCHARGE (DOD)	90%		90%			
CELL TECHNOLOGY	LFP (Lithium Iron Phosphate)			LFP (Lithium Iron Phosphate)		
OPERATING PHASE MODE	Single Phase			Single Phase		
GRID STANDARDS (UK)	G98			G99		
INTEGRATED INVERTER MODEL	3.6kW LV Hybrid			6.0kW HV Hybrid		
<b>DESIGN CONSIDERATIONS</b>						
WEIGHT	104.1kg	134.1kg	181.1kg	206.1kg	231.1kg	256.1kg
CHASSIS MODEL	XO Type III Chassis	XO Type IV Chassis	XO Type V Chassis (x2)			
CHASSIS DIMENSIONS (H X W X D)	1113mm x 636mm x 248mm			1333mm x 636mm x 248mm		
NO. OF CHASSIS	1			2		
MINIMUM MOUNTING CLEARANCE	200mm			200mm		
TOTAL SPACE REQUIREMENT (H X W)	1313mm x 1036mm			1533mm x 1872mm		
STRUCTURAL MOUNTING REQUIREMENT	Yes/no			Yes/no		
WALL MOUNTING FIXING REQUIREMENT	Yes/no			Yes/no		

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<b>PERFORMANCE SPECIFICATIONS</b>						
NOMINAL GRID VOLTAGE INPUT		230v			230v	
NOMINAL GRID VOLTAGE OUTPUT		230v			230v	
GRID FREQUENCY		50Hz			50Hz	
MAX AC INPUT CURRENT		17A			30A	
NOMINAL AC INPUT CURRENT		16A			26A	
BESS CONTINUOUS CURRENT		16A			26A	
MAX. CHARGING POWER IN KW (30 SECS PEAK)		3.6kW			6.9kW	
CONTINUOUS CHARGE POWER KW		3.6kW			6kW	
MAX. DISCHARGING POWER IN KW (30 SECS PEAK)		3.6kW			6.9kW	
CONTINUOUS DISCHARGE POWER KW		3.6kW			6kW	
NOMINAL POWER		3.6kW			6kW	
PV DC OPERATING RANGE (KW)		500W - 5500W			500W - 10000W	
RECOMMENDED PV DC OPERATING RANGE		2000W - 5500W			2000W - 10000W	
MAX PV INPUT VOLTAGE		550 VDC			580 VDC	
START-UP VOLTAGE		80 V			60 V	
PV OPERATING DC INPUT VOLTAGE RANGE		80 - 550 VDC			50 - 580 VDC	
PV DC MPPT VOLTAGE RANGE		80 - 550 VDC			60 - 550 VDC	
NUMBER OF MPP-TRACKERS		2			2	
MAX CURRENT PER MPPT		18.5 A			20A	
OVERCURRENT PROTECTION DEVICE		100A			50A	
POWER FACTOR RANGE		0.9 - 0.9			0.9 - 0.9	
INTERNAL BATTERY DC VOLTAGE		50 V			85 - 400 V	
MAX. EFFICIENCY (BATTERY TO GRID)		96.80%			97.50%	
MAX. EFFICIENCY (PV TO GRID)		97.90%			97.90%	
MAX. BATTERY EFFICIENCY (ROUND-TRIP EFFICIENCY)		94.60%			98.60%	
<b>ENVIRONMENTAL SPECIFICATIONS</b>						
DEGREE OF PROTECTION		IP65			IP65	
OPERATING TEMPERATURE		- 20 to + 60			- 20 to + 60	
RECOMMENDED TEMPERATURE		0 - 35			0 - 35	
OPERATING HUMIDITY		100 %, condensing			100 %, condensing	
MAX ELEVATION		2000m			2000m	
ENVIRONMENT		Indoor			Indoor	
ENCLOSURE TYPE		XO Type III Chassis	XO Type IV Chassis		XO Type V Chassis (x2)	
NOISE LEVEL		25			25	
TESTING, ACCREDITATIONS AND STANDARDS		UN38.3, AS 4777, VDE-AR-N4105, VDE0126, G98, G100, IEC62109-1-2, IEC62040, EN61000-6-2, EN61000-6-3			UN38.3, AS 4777, VDE-AR-N4105, VDE0126, G99, G100, IEC62109-1-2, IEC62040, EN61000-6-2, EN61000-6-3	

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XO HYBRID STORAGE MODEL	XS 5+	XS 7.5+	XS 10+	XS 12.5+	XS 15+	XS 17.5+
<b>WARRANTY &amp; THROUGHPUT</b>						
WARRANTY	10 Years			10 Years		
CYCLES	10,000			10,000		
BATTERY LIFETIME THROUGHPUT	50MW	75MW	100MW	125MW	150MW	200MW
CUSTOMER INTERFACE	XO/ App			XO/ App		
INTERNET CONNECTIVITY	Wi-Fi, Ethernet, Cellular			Wi-Fi, Ethernet, Cellular		
PV AC GENERATION METERING	MID Approved metering			MID Approved metering		
IMPORT/EXPORT METERING	MID Approved metering			MID Approved metering		
<b>ESSENTIAL CIRCUIT BACKUP SUPPLY</b>						
	XO ESS			XO ESS		
NOMINAL POWER	3600 W			6000 W		
NOMINAL FREQUENCY	50Hz			50Hz		
AC VOLTAGE (NOMINAL)	230 VAC			230 VAC		
OVERLOAD (30 MIN)	3600 W			6900 W		
CURRENT RATING	16A			26A		
MAX. OUTPUT CURRENT (DURATION / 100 MS)	16A			30A		
NETWORK CONFIGURATION IN EP MODE	TN			TN		
GRID CONNECTION TYPE	Single phase, L / N / PE			Single phase, L / N / PE		
GRID CONNECTION FUSE	Miniature circuit breaker   type B   20 A			Miniature circuit breaker   type B   32 A		
OPERATING MODE	Single phase emergency power supply via emergency power circuit(s). Switching to emergency power mode is automatically carried out by the storage system.			Single phase emergency power supply via emergency power circuit(s). Switching to emergency power mode is automatically carried out by the storage system.		
SWITCHOVER TIME	Normal operation to back-up power: <0.01s Back-up power to normal operation: <0.01s			Normal operation to back-up power: <0.01s Back-up power to normal operation: <0.01s		
NECESSARY FAULT CURRENT MONITORING	Residual current device (RCD) with max. 100 mA rated differential current; requirements on site must be observed			Residual current device (RCD) with max. 100 mA rated differential current; requirements on site must be observed		



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