

ZETARA



C&I - Magic Series

The product of Magic series is a power storage system specially designed for regional microgrids such as small CBDs, farms, islands, outdoor photovoltaic power stations, etc., which can fully guarantee the power demand and energy security in these scenarios. Our products include Magic-ZBlock (all-in-one battery), Magic-ZBox (battery cabinet), Magic-ZCube (container energy storage product), ect.



Easy installation



Real-time monitoring
and control



LFP cell & system
safety design



High energy density



Magic - ZBlock200-MF



Model	Magic-ZBlock200-MF- (ZCAIO-Block200-MF)			
	50P	150P	250P	500P
AC Parameter				
Rated Power (kVA)	55 [1]	165 [2]	275	550
Rated Voltage (V)	400			
Voltage Range (V)	320-460			
Voltage Range (Hz)	50/60			
Switch Time Of On-grid and Off-grid	<20 (ms)			
PV Parameter				
Max MPPT Quantity	2	4	6	12
Norminal MPPT Module Power	50			
Max Input Power (kW)	60/120	120/180/240		
Max.PV Input Voltage (V)	1000			
MPPT Voltage Range	250-850V [3]			
Battery Parameter				
Battery Module Type	51.2V280Ah			
Nominal Voltage (V)	768			
Voltage Range (V)	672-850			
Nominal Energy (kWh)	215	215-1075	675-1290	1075-2150
General				
Dimension (W*D*H)(mm)	2200*1320*2340[4]	Battery: 1050*1100*2340		
		Hybrid Converter: 1600*1430*2340	Hybrid Converter: 2400*1430*2340	Hybrid Converter: 3750*1430*2340
IP Rating	Battery Cabinet: IP55		Hybrid converter: IP54	
Anticorrosion Grade	StandardC4			
Operating Temperature Range	-20-50°C			
Operating Humidity	0%-95%R.H			
Attitude	<3000m			
Cooling Method	Battery: HVAC	Hybrid converter: Air Cooling		
System Efficiency	> 85%			
Max. Charging/Discharging Rate	0.5C/0.5P			
Firefighting System	Integrated			
Communication Protocol	CAN, RS485, Modbus TCP/IP			
Compliance				
Battery	IEC62619, CE, EMC, UN38.3, UN3480			
Inverter	EN62109-1/-2, EN62477-1, EN61000-6-2, EN61000-6-4,IEC 61683			

Note: [1] Provide two power specifications, 33kVA and 55kVA respectively;
 [2] Provide two power specifications, 165kVA and 110kVA respectively;
 [3] MPPT can run under the buck or boost mode;
 [4] All-in-one design.

Magic - ZBlock200-HF



Model	Magic-ZBlock200-HF (ZCAIO-Block200-HF)
Battery Parameter	
Cell Type	LFP
Battery Moudule Nominal Voltage (V)	51.2
Battery Module Energy (kWh)	14.336
Rated Voltage (V)	768
Voltage Range (V)	720-840
Battery Capacity(BOL) (kWh)	215.04
AC On-grid Parameter	
Grid Type	3W+N+PE
Rated Charge/Discharge Power (kW)	100
Rated Grid Voltage (V)	AC320-460
Applicable Grid Frequency (Hz)	45-55/55-65
Rated Current (A)	140
THDi	<3%
AC Off-grid Parameter	
Rated Charge/Discharge Power (kW)	100
Rated Grid Voltage (V)	AC400
Rated Frequency (Hz)	50/60
THDu	≤ 1% linear; or ≤ 5% nonlinear
General Parameter	
Dimension:W*D*H (mm)	1800*1100*2340
IP Rating	IP54
Anticorrosion Grade	StandardC4
Operating Temperature Range	-20-50°C
Operating Humidity	0%-95%R.H
Attitude (m)	<2000
Cooling Method	HVAC
Noise (dB)	≤ 75
System Efficiency	≥ 85%
Max. Charging/Discharging Rate	0.5C/0.5P
Firefighting System	Integrated
Communication	CAN, RS485, Modbus TCP/IP
Compliance	
Battery	IEC62619, CE, EMC, UN38.3, UN3480
PCS	IEC/EN 62109-1/-2, IEC/EN 62477-1/-2, IEC/EN 62477-2, IEC/EN 61000-6-1/2/3/4, IEC 60068-2

Magic - ZBox100-HS



Model	Magic-ZBox100-HS (ZCESS-Box100-HS)
Battery Side	
Cell Type	LFP
Battery Moudule Nominal Voltage (V)	51.2
Battery Module Energy (kWh)	5.12
Rated Voltage (V)	512
Voltage Range (V)	448-576
Battery Capacity(BOL) (kWh)	102.4
AC On-grid Parameter	
Rated Charge/Discharge Power (kW)	50
Rated Grid Voltage (V)	AC380~400
Applicable Grid Frequency (Hz)	50/60
MAX. Output Current (A)	83
THDi	<3%
AC Off-grid Parameter	
Rated Charge/Discharge Power (kW)	50
Rated Grid Voltage (V)	AC380~400
Rated Frequency (Hz)	50/60
THDu	<3%
Photovoltaic Input	
Max Input Power	75kW 【Max 4 MPPT modules】
MPPT Voltage Range (V)	200~850
General Parameter	
Max Efficiency	98.80%
Max. charging/discharging rate	1C/0.5P
Operating Humidity	0%-95%R.H
Anticorrosion Grade	StandardC4
Dimension (W*D*H) (mm)	1560*900*2060
Operating Temperature Range	-20~50°C
Cooling Method	HVAC
Firefighting System	Integrated
Total Weight (kg)	1220
Communication	CAN, RS485, Modbus TCP/IP
IP Rating	Battery Cabinet: IP55 Hybrid converter: IP65
Compliance	
Battery	IEC62619, CE, EMC, UN38.3, UN3480
Hybrid inverter	EN 61000, IEC 62109, IEC 62477

Magic - ZBox200-DC



Model	Magic-ZBox200-DC (ZCESS-Box200-DC)
Battery Side	
Cell Type	LFP
Battery Moudule Nominal Voltage (V)	51.2
Battery Module Energy (kWh)	14.336
Rated Voltage (V)	768
Voltage Range (V)	720-840
Battery Capacity(BOL) (kWh)	215.04
PV Side	
Max. Input Power (kW)	200
Input Voltage Range (V)	300-1000
Start Voltage (V)	330
Max Current per MPPT Input (A)	26
Number of MPPT Tracks/Strings	12/24
Nominal Output Power (kW)	100
Output Voltage Range (V)	500-1000
Max Output Current (A)	26
Output Strings/Tracks	12/12
General Parameter	
Dimension(W*D*H) (mm)	1050*1150*2340(W/O DC/DC) 1410*1150*2340(With DC/DC)
IP Rating	Battery: IP55 DC/DC: IP65
Anticorrosion Grade	StandardC4
Total Weight (kg)	2150(W/O DC/DC) 2300(With DC/DC)
Cooling Mode	Battery: HVAC DC/DC: Air Cooling
Fire Fighting	Integrated
Topology	Transformerless
Operating Temperature (°C)	-20- 50
Operating Humidity	0%-95%R.H
Communication	CAN, RS485, Modbus TCP/IP
Max Efficiency	98.80%
Max. charging/discharging rate	0.5C/0.5P
Total Weight	2150kg(W/O DC/DC) 2300kg(with DC/DC)
Compliance	
Battery	IEC62619, CE, EMC, UN38.3, UN3480
DC/DC Converter	EN 62109-1/-2, IEC 62109-1/-2

Magic - ZBox100



Model	Magic-ZBox100 (ZCESS-Box100)			
	50KWh	70KWh	87KWh	100KWh
Battery Parameter				
Cell Type	LFP			
Battery Moudule Nominal Voltage	51.2V			
Battery Module Energy (Wh)	5120			
Rated Voltage (V)	512	716.8	870.4	512
Voltage Range (V)	448-576	627.2-806.4	761.6-979.2	448-576
Rated Capacity (Ah)	100			200
Recommend Charge/Discharge Current (A)	50/50			100/100
Rated Energy (kWh)	51.2	71.68	87.04	102.4
Max. Continuous Charge/ Discharge Current (A)	100/100			200/200
General Parameter				
Dimension(W*D*H) (mm)	1200*900*2060			
IP Rating	IP55			
Anticorrosion Grade	StandardC4			
Total Weight (kg)	670	850	980	1140
Cooling Mode	HVAC			
Fire Fighting	Integrated			
Operating Temperature (℃)	-20- 50			
Operating Humidity	0%-95%R.H			
Communication	CAN, RS485, Modbus TCP/IP			
Parallel	Max. 3 cabinets			Max. 2 cabinets
Compliance				
Safety & Certification	IEC62619, CE, EMC, UN38.3, UN3480			

Magic - ZBox200



Model	Magic-ZBox200 (ZCESS-Box200)
Battery Parameter	
Cell Type	LFP
Battery Moudule Nominal Voltage	51.2V
Battery Module Energy (kWh)	14.336
Rated Capacity (Ah)	280
Rated Voltage (V)	768
Voltage Range (V)	720-840
Battery Capacity(BOL) (kWh)	215.04
Recommend Charge/Discharge Current (A)	140/140
Max. Charge/Discharge Current (A)	140/200
General Parameter	
Dimension(W*D*H) (mm)	1050*1310*2340
IP Rating	IP55
Anticorrosion Grade	StandardC4
Total Weight (kg)	Max.2150
Cooling Mode	HVAC
Fire Fighting	Integrated
Operating Temperature (°C)	-20- 50
Operating Humidity	0%-95%R.H
Communication	CAN, RS485, Modbus TCP/IP
Parallel	Max. 10 cabinets
Compliance	
Safety & Certification	IEC62619, CE, EMC, UN38.3, UN3480

Magic - ZCube



Model	Magic-ZCube (ZCESS-Cube)
Battery Parameter	
Cell Type	LFP
Battery Moudule Nominal Voltage	51.2V
Battery Module Energy (kWh)	14.336
Rated Voltage (V)	870.4
Rated Capacity (Ah)	280
System Configuration	10*1P272S
Battery Capacity(BOL) (kWh)	2437
Battery Voltage Range (V)	761.6-979.2
Nominal Power (kW)	1127
General Parameter	
Dimension(W*D*H) (mm)	6058 * 2896 * 2438
Weight (t)	≤ 28
IP Rating	IP54
Anticorrosion Grade	StandardC4
Operating Ambient Temperature	-20~50℃
Operating Humidity	0%~95%R.H
Max. Working Altitude (m)	<2000
Cooling Concept	HVAC
Noise (dB)	<75
Fire Suppression System	Integrated with aerosol(Water optional)
Communication Interfaces	Ethernet
Communication Protocols	CAN, RS485, Modbus TCP/IP
Anticorrosion Grade	StandardC4
Compliance	
Safety & Certification	UN38.3, UN3536, IEC62619

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