COMMERCIAL
ENERGY STORAGE SYSTEM
Product Catalog

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COMPANY PROFILE

Vodloon New Energy Co., Ltd. is a dynamic enterprise at the forefront of designing, developing, manufacturing, and selling industrial, commercial, and residential energy storage systems. By integrating key technologies across the industrial chain—from integrated battery packs (PACKs) and precision-engineered battery management systems (BMS) to smart power conversion systems (PCS) and adaptive energy management system (EMS) solutions—we achieve seamless innovation collaboration between upstream and downstream partners, delivering end-to-end system control capabilities to global clients.

Guided by a customer-centric philosophy, Vodloon New Energy focuses its expertise on four strategic pillars: residential energy storage systems, smart grid networks, industrial and commercial energy clusters, and modular containerized storage solutions. Our solutions go beyond hardware by integrating AI-powered energy management platforms that enable optimized operations, predictive maintenance, and full lifecycle sustainability for next-generation power ecosystems.

Product Directory

02

Commercial Energy Storage System

VSC-30KW-51.2KWh-EU 05 - 06

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Certification

- ISO9001, ISO14001, OHSAS18001 system
- Germany Nord Laboratory which is highest stardard in EU Market
- CEC certificate for electrical and mechanical products approved by Australia
- MCS certificate for electrical and mechanical products approved in UK
- IDCOL certificate aprroval by Bangadesh market
- INMETRO certificate for Brazil
- All the QC control system and certificate approval make isola's solar panels more reliable in the market



VSC Series

Standard Proposal

Commercial Energy Storage System

- VSC-30KW-51.2KWh-EU
- VSC-40KW-100KWh-EU
- VSC-50KW-158KWh-EU
- VSC-100KW-315KWh-EU

Vodloon SOLAR

02

COMMERCIAL ENERGY STORAGE SYSTEM

Commercial Energy Storage System

Provide users with a one-stop photovoltaic energy storage solution

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VSC Series
VSC-30KW-51.2KWh

Commercial Energy Storage System
Standard Proposal

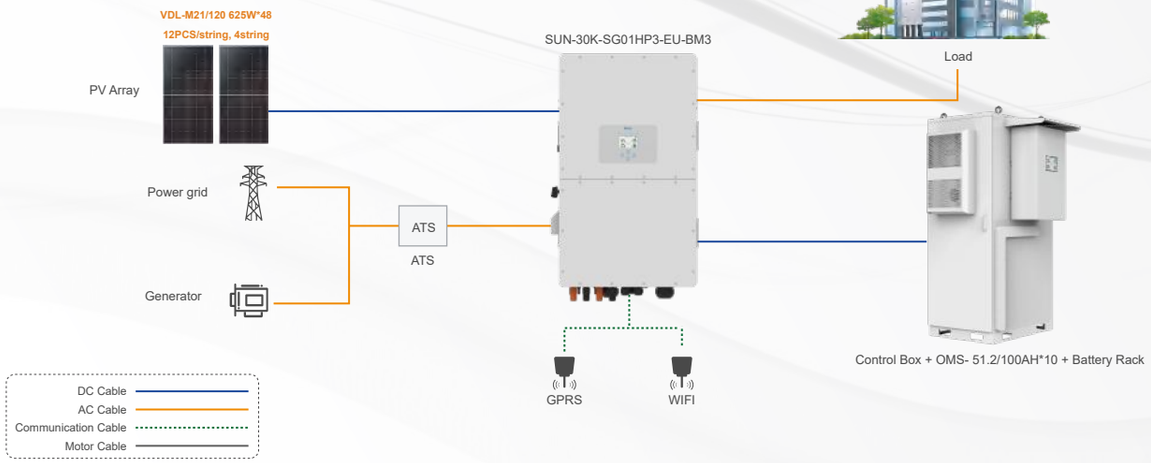
PV Power	Equipment	Remark
VSC-30KW-51.2KWh	PV	30KWp (VDL-M21/120 625W*48)
	Inverter	30KW
	Battery	51.2KWh (LI 51.2V/100Ah-TB)



HIGHLIGHTS

- Provides the integrated system solution with one stop service
- Supports up to 30KW Three-phase output
- The entire system has been fully tested and works perfectly
- Optimal configuration, high cost performance ratio

PRODUCT TOPOLOGY



COMMERCIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark
VSC-30KW-51.2KWh 30KWp/30KW/51.2KWh	PV modules	VDL-M21/120 625W	pcs	48	12pcs/string, 4string
	Inverter	SUN-30K-SG01HP3-EU-BM3	pcs	1	3P/400V
	Batttery	OMS-51.2100AH	pcs	10	Power cable included
		BMS Control Box	pcs	1	BAU included
		Battery Rack	pcs	1	1*10layers
	Connector	MC4	pair	10	
	PV cable	PV1-F 1*4mm²	m	400	
	Moniting	WIFI module	pcs	1	Optional

MODEL	VSC-30KW-51.2KWh
System Parameter	
AC rated power	30kW
Battery capacity	51.2kWh
AC voltage	3P/400V
Rated grid frequency	50/60Hz
Inverter Parameter	
Model	SUN-30K-SG01HP3-EU-BM3
Rated power	30kVA / 30kW
Frequency	50/60 Hz
Nominal Voltage	230/400VAC
Max. Efficiency	97.60%
Max. PV Voltage (V)	1000VDC
PV Array MPPT Voltage Range	150~850VDC
Max . Solar Input Current	36A *3
Max. Short Current(A)	55A *3
Dimensions, D x W x H(mm)	527*820*294
Weight (Kgs)	80
Battery Parameter	
Model	OMS-51.2100AH*10
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	51.2
Nominal Capacity (WH)	51200
Voltage Range (V)	44.8~57.6
Max. Charge/Discharge Current(A)	100
Communicaiton	RS485/CAN
Weight (Kgs)	44*10
Design Life	10 years+
Cycle Life	>6000 @25°C
Environment	
Maximum operation altitude	4000m
Working Temperature	0°~ 50°C Charge ; -10°~ 50°C Discharge
Shelf Temperature	-20°~ 60°C

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VSC Series
VSC-40KW-100KWh

Commercial Energy Storage System
Standard Proposal

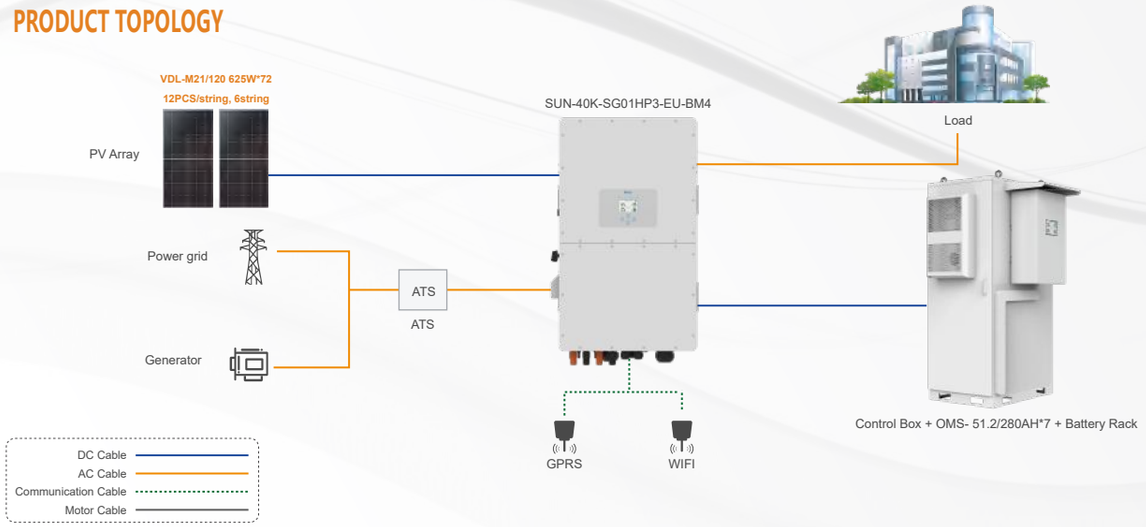
PV Power	Equipment	Remark
VSC-40KW-100KWh	PV	45KWp (VDL-M21/120 625W*72)
	Inverter	40KW
	Battery	100KWh (L: 51.2V/280AH*7)



HIGHLIGHTS

- Provides the integrated system solution with one stop service
- Supports up to 40KW Three-phase output
- The entire system has been fully tested and works perfectly
- Optimal configuration, high cost performance ratio

PRODUCT TOPOLOGY



COMMERCIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark
VSC-40KW-100KWh 45KWp/40KW/100KWh	PV modules	VDL-M21/120 625W	pcs	72	12pcs/string, 6string
	Inverter	SUN-40K-SG01HP3-EU-BM4	pcs	1	3P/400V
	Batttery	OMS-51.2280AH	pcs	7	Power cable included
		BMS Control Box	pcs	1	BAU included
		Battery Rack	pcs	1	1*10layers
	Connector	MC4	pair	20	
	PV cable	PV1-F 1*4mm²	m	600	
	Moniting	WIFI module	pcs	1	Optional

MODEL	VSC-40KW-100KWh
System Parameter	
AC rated power	40kW
Battery capacity	100kWh
AC voltage	3P/400V
Rated grid frequency	50/60Hz
Inverter Parameter	
Model	SUN-40K-SG01HP3-EU-BM4
Rated power	40kVA / 40kW
Frequency	50/60 Hz
Nominal Voltage	230/400VAC
Max. Efficiency	97.60%
Max. PV Voltage (V)	1000VDC
PV Array MPPT Voltage Range	150~850VDC
Max . Solar Input Current	36A *4
Max. Short Current(A)	55A *4
Dimensions, D x W x H(mm)	527*820*294
Weight (Kgs)	80
Battery Parameter	
Model	OMS-51.2280AH*7
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	51.2
Nominal Capacity (WH)	100352
Voltage Range (V)	44.8~57.6
Max. Charge/Discharge Current(A)	100
Communicaiton	RS485/CAN
Weight (Kgs)	114*7
Design Life	10 years+
Cycle Life	>6000 @25°C
Environment	
Maximum operation altitude	4000m
Working Temperature	0°~ 50°C Charge ; -10°~ 50°C Discharge
Shelf Temperature	-20°~ 60°C

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VSC Series
VSC-50KW-158KWh

Commercial Energy Storage System
Standard Proposal

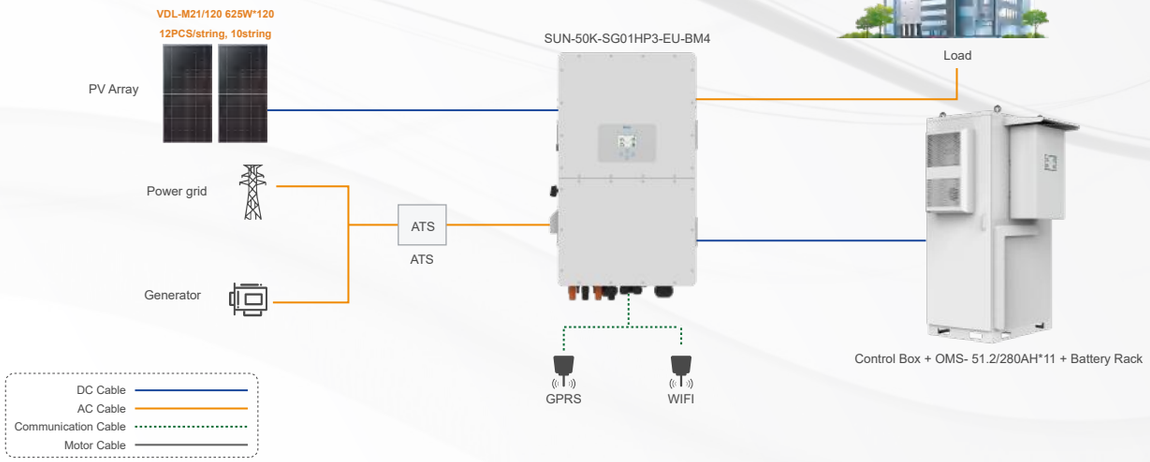
PV Power	Equipment	Remark
VSC-50KW-158KWh	PV	75KWp (VDL-M21/120 625W*120)
	Inverter	50KW
	Battery	158KWh (LI-51.2V/280AH*11)



HIGHLIGHTS

- Provides the integrated system solution with one stop service
- Supports up to 50KW Three-phase output
- The entire system has been fully tested and works perfectly
- Optimal configuration, high cost performance ratio

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COMMERCIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark
VSC-50KW-158KWh 75KWp/50KW/158KWh	PV modules	VDL-M21/120 625W	pcs	120	12pcs/string, 10string
	Inverter	SUN-50K-SG01HP3-EU-BM4	pcs	1	3P/400V
	Batttery	OMS-51.2280AH	pcs	11	Power cable included
		BMS Control Box	pcs	1	BAU included
		Battery Rack	pcs	1	1*10layers
	Connector	MC4	pair	20	
	PV cable	PV1-F 1*4mm²	m	800	
	Moniting	WIFI module	pcs	1	Optional

MODEL	VSC-50KW-158KWh
System Parameter	
AC rated power	50kW
Battery capacity	158kWh
AC voltage	3P/400V
Rated grid frequency	50/60Hz
Inverter Parameter	
Model	SUN-50K-SG01HP3-EU-BM4
Rated power	50kVA / 50kW
Frequency	50/60 Hz
Nominal Voltage	230/400VAC
Max. Efficiency	97.60%
Max. PV Voltage (V)	1000VDC
PV Array MPPT Voltage Range	150~850VDC
Max . Solar Input Current	36A *4
Max. Short Current(A)	55A *4
Dimensions, D x W x H(mm)	527*820*294
Weight (Kgs)	80
Battery Parameter	
Model	OMS-51.2280AH*11
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	51.2
Nominal Capacity (WH)	157696
Voltage Range (V)	44.8~57.6
Max. Charge/Discharge Current(A)	100
Communicaiton	RS485/CAN
Weight (Kgs)	114*11
Design Life	10 years+
Cycle Life	>6000 @25°C
Environment	
Maximum operation altitude	4000m
Working Temperature	0°~ 50°C Charge ; -10°~ 50°C Discharge
Shelf Temperature	-20°~ 60°C

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VSC Series
VSC-100KW-315KWh

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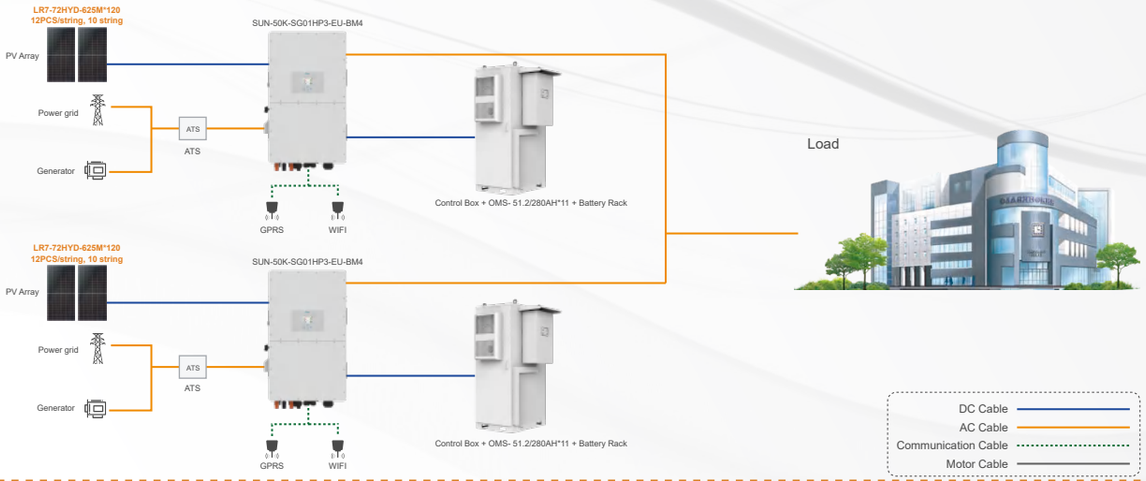
PV Power	Equipment	Remark
VSC-100KW-315KWh	PV	150KWp (VDL-M21/120 625W*240)
	Inverter	100KW
	Battery	315KWh (Li- 51.2V/280Ah*2P)



HIGHLIGHTS

- Provides the integrated system solution with one stop service
- Supports up to 100KW Three-phase output
- The entire system has been fully tested and works perfectly
- Optimal configuration, high cost performance ratio

PRODUCT TOPOLOGY



COMMERCIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark
VSC-100KW-315KWh 150KWp/100KW/315KWh	PV modules	VDL-M21/120 625W	pcs	240	12pcs/string, 20string
	Inverter	SUN-50K-SG01HP3-EU-BM4	pcs	2	3P/400V
	Batttery	OMS-51.2280AH	pcs	22	Power cable included
		BMS Control Box	pcs	2	BAU included
		Battery Rack	pcs	2	1*10layers
	Connector	MC4	pair	40	
	PV cable	PV1-F 1*4mm²	m	1200	
	Moniting	WIFI module	pcs	1	Optional

MODEL	VSC-100KW-315KWh
System Parameter	
AC rated power	50kW*2
Battery capacity	315kWh
AC voltage	3P/400V
Rated grid frequency	50/60Hz
Inverter Parameter	
Model	SUN-50K-SG01HP3-EU-BM4
Rated power	50kVA / 50kW
Frequency	50/60 Hz
Nominal Voltage	230/400VAC
Max. Efficiency	97.60%
Max. PV Voltage (V)	1000VDC
PV Array MPPT Voltage Range	150~850VDC
Max . Solar Input Current	36A *4
Max. Short Current(A)	55A *4
Dimensions, D x W x H(mm)	527*820*294
Weight (Kgs)	80
Battery Parameter	
Model	OMS-51.2280AH*11*2
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	51.2
Nominal Capacity (WH)	157696*2
Voltage Range (V)	44.8~57.6
Max. Charge/Discharge Current(A)	100
Communicaiton	RS485/CAN
Weight (Kgs)	114*11*2
Design Life	10 years+
Cycle Life	>6000 @25°C
Environment	
Maximum operation altitude	4000m
Working Temperature	0°~ 50°C Charge ; -10°~ 50°C Discharge
Shelf Temperature	-20°~ 60°C

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