INDUSTRIAL
ENERGY STORAGE SYSTEM
Product Catalog

NingBo Vodloon New Energy Co. , Ltd.

+86 18657402026 sales@vodloon.com

www.vodloon.com

301-76, Building 2, Zhangjiaying Village Industrial Zone, Qiuai Town, Yinzhou District, Ningbo City

2026



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

03

Industrial Energy Storage System

VSI-100KW-200KWh-EU	05 - 06
VSI-150KW-315KWh-EU	07 - 08
VSI-250KW-600KWh-EU	09 - 10
VSI-500KW-1000KWh-EU	11 - 12
VSI-Container- 20FT 250KW/860KWH-EU	13 - 14
VSI-Container- 20FT 500KW/1204KWH-EU	15 - 16
VSI-Container- 40FT 500KW/2208KWH-EU	17 - 18

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

VSI Series

Standard Proposal

Industrial Energy Storage System

- **VSI-100KW-200KWh-EU**
- **VSI-150KW-315KWh-EU**
- **VSI-250KW-600KWh-EU**
- **VSI-500KW-1000KWh-EU**
- **VSI-Container- 20FT 250KW/860KWH-EU**
- **VSI-Container- 20FT 500KW/1204KWH-EU**
- **VSI-Container- 40FT 500KW/2208KWH-EU**

Vodloon SOLAR

03

INDUSTRIAL ENERGY STORAGE SYSTEM

Industrial Energy Storage System

Provide users with a one-stop photovoltaic energy storage solution

www.vodloon.com

Industrial Energy Storage System
Customized Proposal

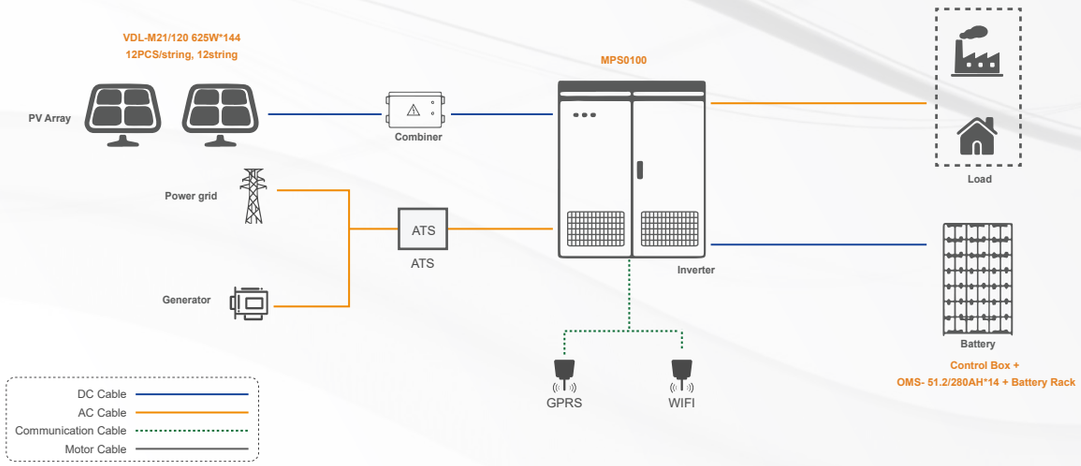
VSI Series
VSI-100KW-200KWh

- 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

PV Power	Equipment	Remark
VSC-100KW-200KWh	PV	90KWp (LR7-72HYD-625M*144)
	Inverter	100KW
	Battery	200KWh (Li: 14*51.2V/300Ah,1 Rack)



PRODUCT TOPOLOGY



Follow Us
@Vodloon Solar

COMMERCIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark
VSI-100KW-200KWh 90KWp/100KW/200KWh	PV modules	VDL-M21/120 625W	pcs	144	12pcs/string, 12string
	PV Combiner Box	8 Inputs 1 Output	pcs	2	
	Inverter	MPS0100	pcs	1	
	Batttery	OMS-51.2280AH	pcs	14	Power cable included
	High voltage control box	BSM-300A	pcs	1	
	Connector	MC4	pair	20	
	PV cable	PV1-F 1*4mm²	m	800	
	Moniting	WIFI module	pcs	1	Optional

MODEL	VSI-100KW-200KWh
System Parameter	
AC rated power	100kW
Battery capacity	200kWh
AC voltage	3P/400V
Rated grid frequency	50/60Hz
Inverter Parameter	
Model	MPS0100
Rated power	100kVA / 100kW
Frequency	50/60 Hz
Nominal Voltage	230/400VAC
Max. Efficiency	97.60%
Max. PV Voltage (V)	1000VDC
PV Array MPPT Voltage Range	250~850VDC
Max . Solar Input Current	208.3A
Max. Short Current(A)	260.4A
Dimensions, D x W x H(mm)	1200*1900*800
Weight (Kgs)	923
Battery Parameter	
Model	OMS-51.2280AH*14
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	51.2
Nominal Capacity (WH)	200704
Voltage Range (V)	44.8~57.6
Max. Charge/Discharge Current(A)	100
Communicaiton	RS485/CAN
Weight (Kgs)	44*14
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

Follow Us
@Vodloon Solar

www.vodloon.com

Industrial Energy Storage System
Customized Proposal

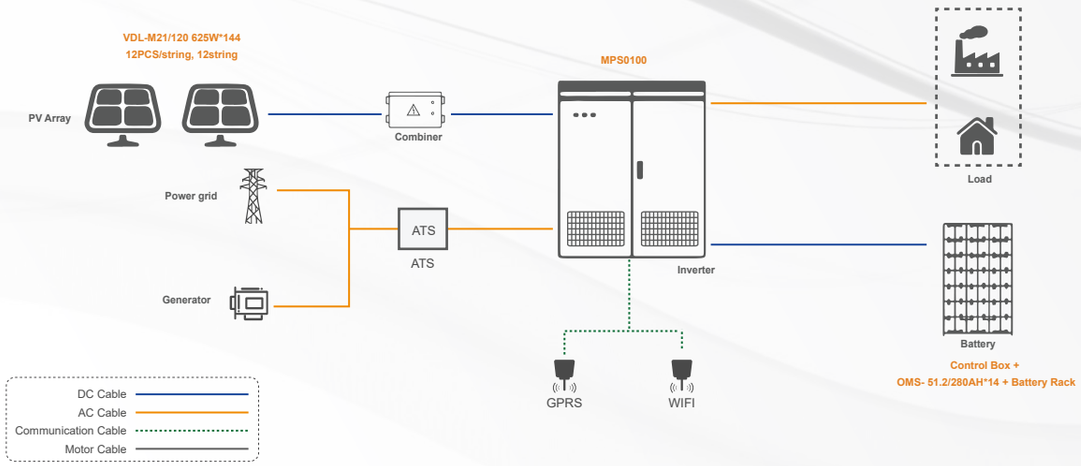
PV Power	Equipment	Remark
VSC-150KW-315KWh	PV	90KWp (LR7-72HYD-625M*144)
	Inverter	100KW
	Battery	200KWh (Li: 14*51.2V/300Ah,1 Rack)

VSI Series
VSI-150KW-315KWh

- 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



PRODUCT TOPOLOGY



Follow Us
@Vodloon Solar

COMMERCIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark
VSI-150KW-315KWh 150KWp/150KW/315KWh	PV modules	VDL-M21/120 625W	pcs	240	12pcs/string, 20string
	PV Combiner Box	12 Inputs 1 Output	pcs	2	
	Inverter	MPS0150	pcs	1	
	Batttery	OMS-51.2280AH	pcs	22	Power cable included
	High voltage control box	BSM-300A	pcs	1	
	Connector	MC4	pair	40	
	PV cable	PV1-F 1*4mm²	m	1200	
	Moniting	WIFI module	pcs	1	Optional

MODEL	VSI-150KW-315KWh
System Parameter	
AC rated power	150kW
Battery capacity	315kWh
AC voltage	3P/400V
Rated grid frequency	50/60Hz
Inverter Parameter	
Model	MPS0150
Rated power	150kVA / 150kW
Frequency	50/60 Hz
Nominal Voltage	230/400VAC
Max. Efficiency	97.60%
Max. PV Voltage (V)	1000VDC
PV Array MPPT Voltage Range	250~850VDC
Max . Solar Input Current	208.3A
Max. Short Current(A)	260.4A
Dimensions, D x W x H(mm)	1200*1900*800
Weight (Kgs)	923
Battery Parameter	
Model	OMS-51.2280AH*22
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	51.2
Nominal Capacity (WH)	315392
Voltage Range (V)	44.8~57.6
Max. Charge/Discharge Current(A)	100
Communicaiton	RS485/CAN
Weight (Kgs)	44*22
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

Follow Us
@Vodloon Solar

www.vodloon.com

Industrial Energy Storage System
Customized Proposal

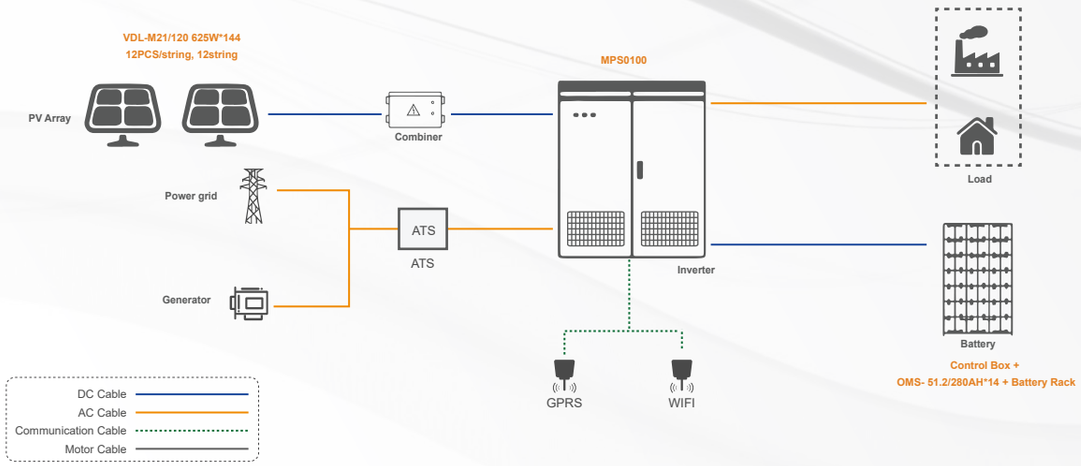
PV Power	Equipment	Remark
VSC-100KW-200KWh	PV	90KWp (LR7-72HYD-625M*144)
	Inverter	100KW
	Battery	200KWh (Li: 14*51.2V/300Ah,1 Rack)

VSI Series
VSI-250KW-600KWh

- 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



PRODUCT TOPOLOGY



Follow Us
@Vodloon Solar

COMMERCIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark
VSI-250KW-600KWh 300KWp/250KW/600KWh	PV modules	VDL-M21/120 625W	pcs	480	12pcs/string, 40string
	PV Combiner Box	12 Inputs 1 Output	pcs	2	
	Inverter	MPS0250	pcs	1	
	Batttery	OMS-51.2280AH	pcs	42	Power cable included
	High voltage control box	BSM-300A	pcs	1	
	Connector	MC4	pair	80	
	PV cable	PV1-F 1*4mm²	m	1600	
	Moniting	WIFI module	pcs	1	Optional

MODEL	VSI-250KW-600KWh
System Parameter	
AC rated power	250kW
Battery capacity	600kWh
AC voltage	3P/400V
Rated grid frequency	50/60Hz
Inverter Parameter	
Model	MPS0250
Rated power	250kVA / 250kW
Frequency	50/60 Hz
Nominal Voltage	230/400VAC
Max. Efficiency	97.60%
Max. PV Voltage (V)	1000VDC
PV Array MPPT Voltage Range	250~850VDC
Max . Solar Input Current	208.3A
Max. Short Current(A)	260.4A
Dimensions, D x W x H(mm)	1200*1900*800
Weight (Kgs)	923
Battery Parameter	
Model	OMS-51.2280AH*14*3
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	51.2
Nominal Capacity (WH)	602112
Voltage Range (V)	44.8~57.6
Max. Charge/Discharge Current(A)	100
Communicaiton	RS485/CAN
Weight (Kgs)	44*14*3
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

Follow Us
@Vodloon Solar

www.vodloon.com

Industrial Energy Storage System
Customized Proposal

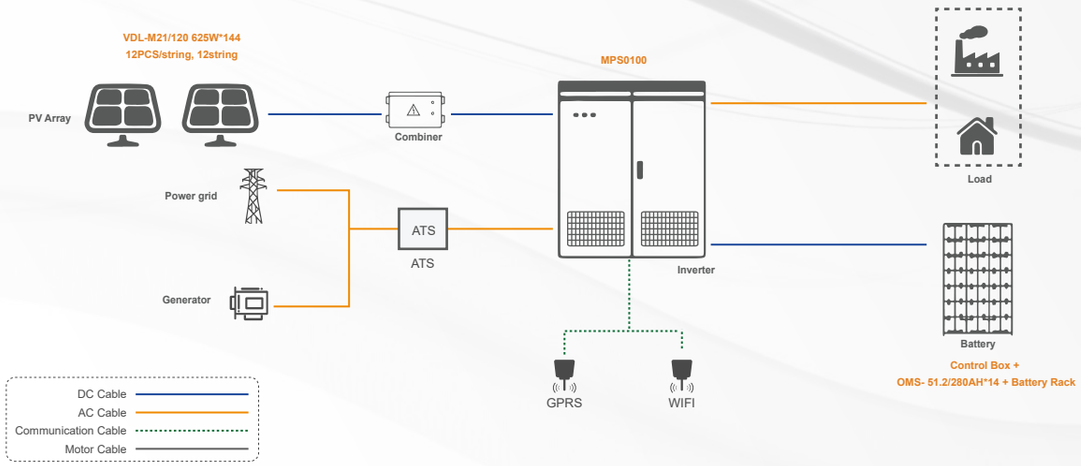
PV Power	Equipment	Remark
VSI-500KW-1000KWh	PV	90KWp (LR7-72HYD-625M*144)
	Inverter	100KW
	Battery	200KWh (Li: 14*51.2V/300Ah,1 Rack)

VSI Series
VSI-500KW-1000KWh

- 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



PRODUCT TOPOLOGY



Follow Us
@Vodloon Solar

COMMERCIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark
VSI-500KW-1000KWh 510KWp/500KW/1000KWh	PV modules	VDL-M21/120 625W	pcs	816	12pcs/string, 68string
	PV Combiner Box	12 Inputs 1 Output	pcs	5	
	Inverter	MPS0500	pcs	1	
	Batttery	OMS-51.2280AH	pcs	70	Power cable included
	High voltage control box	BSM-300A	pcs	1	
	Connector	MC4	pair	80	
	PV cable	PV1-F 1*4mm²	m	2000	
	Moniting	WIFI module	pcs	1	Optional

MODEL	VSI-500KW-1000KWh
System Parameter	
AC rated power	500kW
Battery capacity	1000kWh
AC voltage	3P/400V
Rated grid frequency	50/60Hz
Inverter Parameter	
Model	MPS0500
Rated power	500kVA / 500kW
Frequency	50/60 Hz
Nominal Voltage	230/400VAC
Max. Efficiency	97.60%
Max. PV Voltage (V)	1000VDC
PV Array MPPT Voltage Range	250~850VDC
Max . Solar Input Current	208.3A
Max. Short Current(A)	260.4A
Dimensions, D x W x H(mm)	1200*1900*800
Weight (Kgs)	923
Battery Parameter	
Model	OMS-51.2280AH*14*5
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	51.2
Nominal Capacity (WH)	1003520
Voltage Range (V)	44.8~57.6
Max. Charge/Discharge Current(A)	100
Communicaiton	RS485/CAN
Weight (Kgs)	44*14*5
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

Follow Us
@Vodloon Solar

Vodloon SOLAR

www.vodloon.com

Industrial Energy Storage System

Customized Proposal

PV Power	Equipment	Remark
VSI-250KW-860KWh	PV	109.1KWp (LR7-72HYD-625M*176)
	Inverter	250KW
	Battery	860KWh (Li- 10*51.2V/300Ah,2 Rack)

VSI Series

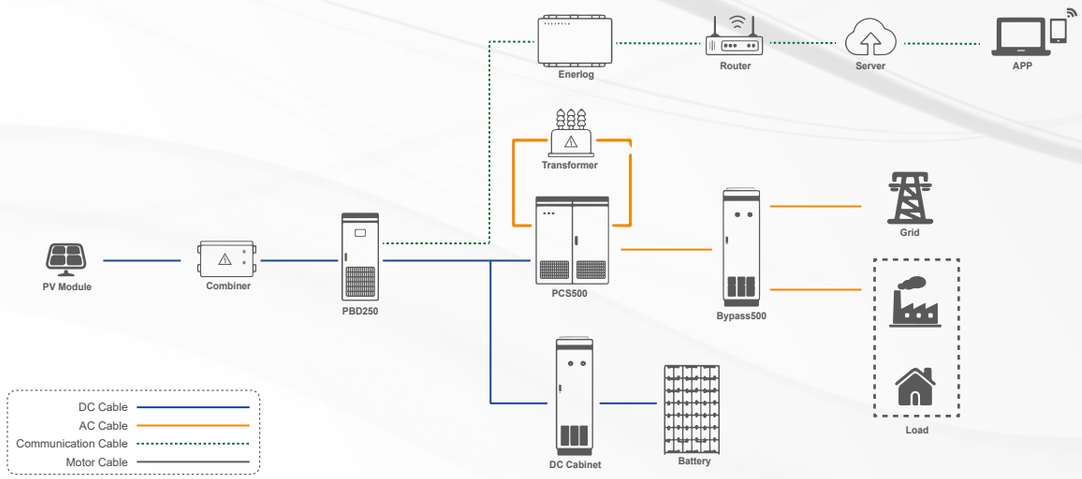
VSI- Container - 20FT

250KW-860KWh

- Provides the integrated system solution with one stop service
- Supports up to 300KW three-phase output
- The entire system has been fully tested and works perfectly



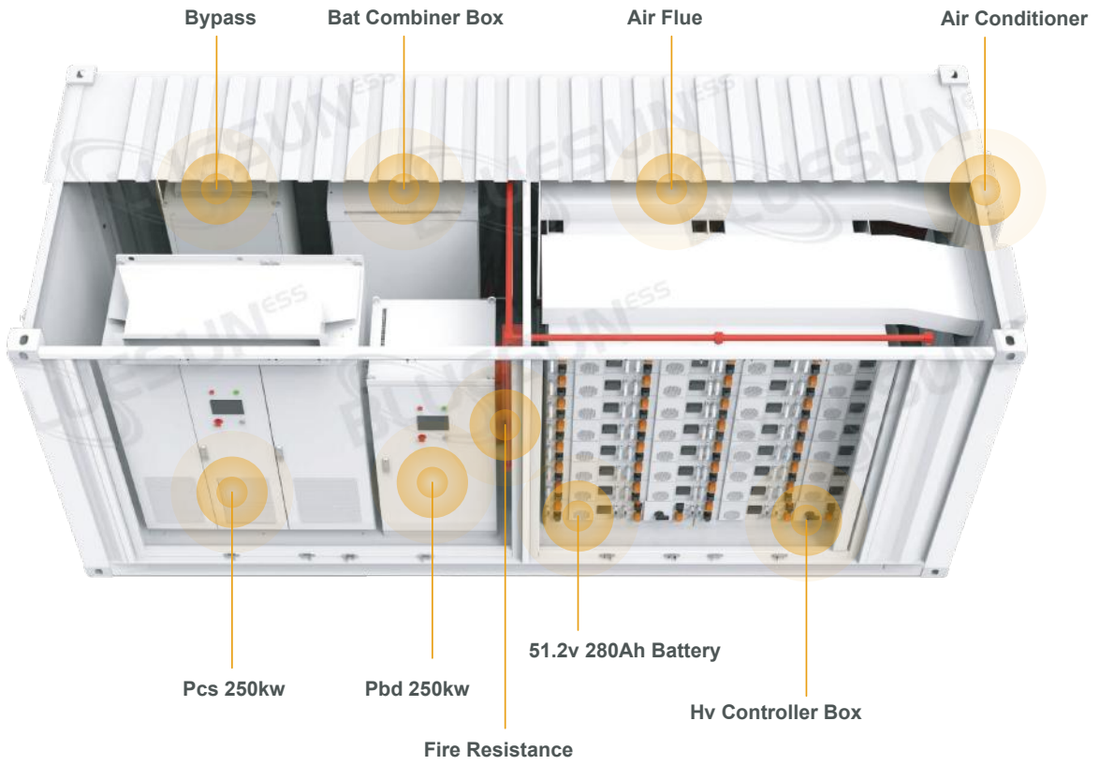
PRODUCT BLOCK DIAGRAM



Follow Us
@Vodloon Solar

Vodloon SOLAR

System Block Diagram



Item	Quantity		Description	Comments
PV	BSM565M10-72HPH	480	12 pieces/string; A total of 40 strings; A total of 268.8kWp	
Battery 860.16KWH (688.12KWH available at 80% DOD) Backup	BAT-Conbiner box 1000V-1500A	1	For combination of multiple battery racks	
	BLUESUN-51.2V 280AH moudle	60	Battery With BMU module 51.2V 280AH Capacity 14.3kWh	
	BlUESUN-HV-Controller1000V 300A	4	High Voltage Controller Box	
PV-Combiner Box	8 Inputs 1 Output	5	For combination of multiple PV module strings	
PBD250		1	250kW solar charge controller	
PCS250		1	250kW battery inverter	
Bypass 250		1	Switch between on-grid and off-grid	
EnerLog		1	Monitoring datalogger	
20FT Container		1	For outdoor installation, IP54,including lighting, fire-resitance system,battery rack,air conditioner	

Follow Us
@Vodloon Solar

Vodloon SOLAR

20FT 500KW/1204KWH-EU

Vodloon SOLAR

www.vodloon.com

Industrial Energy Storage System

Customized Proposal

PV Power	Equipment	Remark
VSI-500KW-1024KWh	PV	218.2KWp (LR7-72HYD-625M*352)
	Inverter	250KW*2
	Battery	1024KWh (LI: 10*51.2V/300Ah,4 Rack)

VSI Series

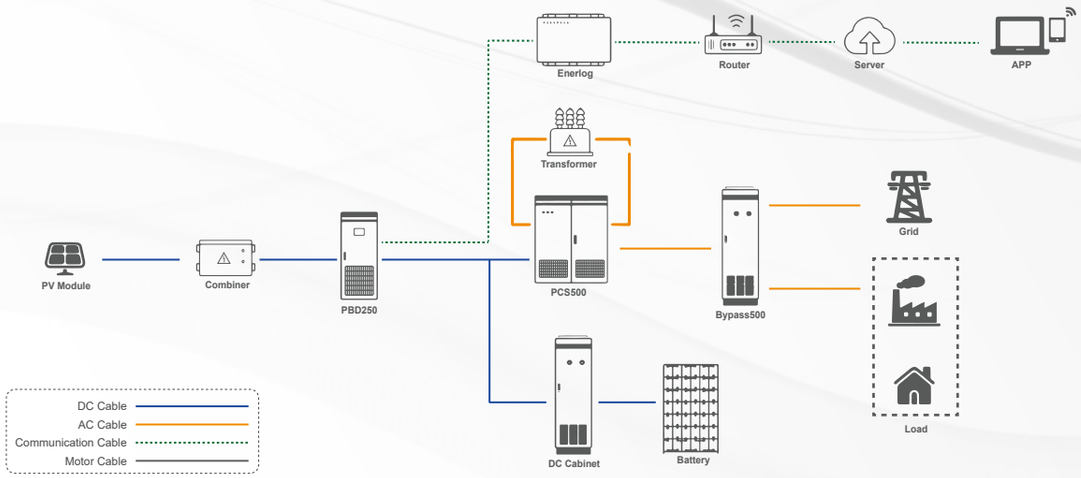
VSI- Container - 20FT

500KW-1204KWh

- Provides the integrated system solution with one stop service
- Supports up to 500KW three-phase output
- The entire system has been fully tested and works perfectly



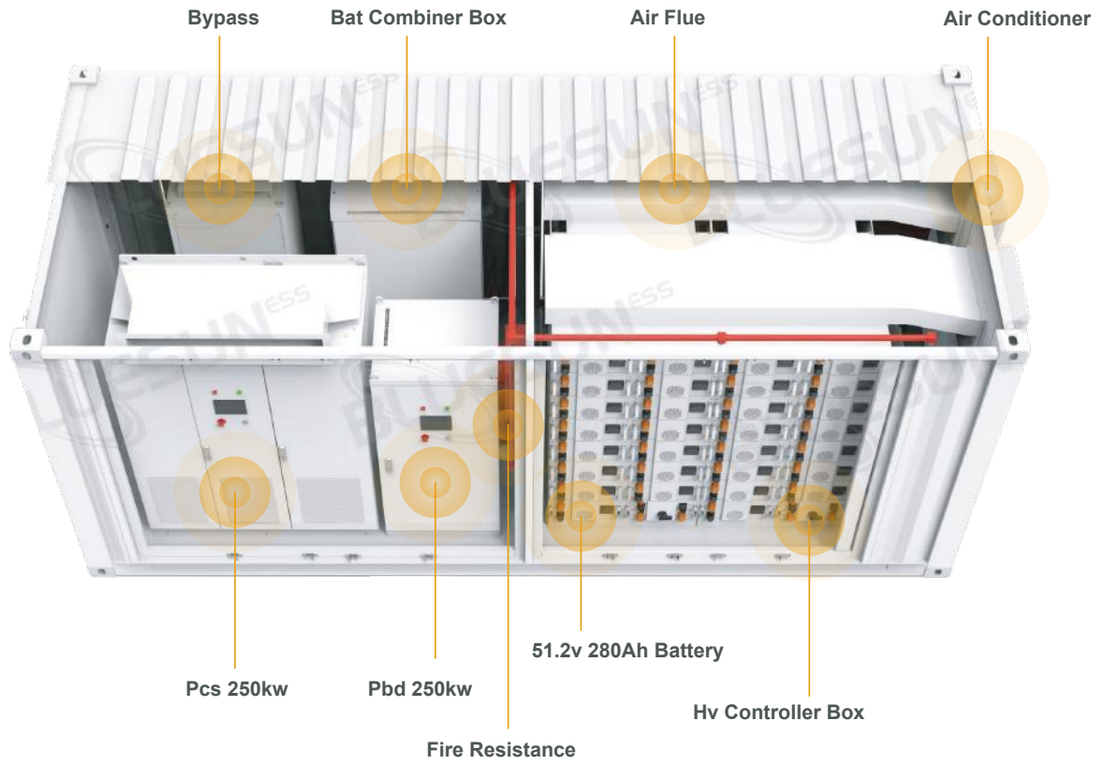
PRODUCT BLOCK DIAGRAM



Follow Us @Vodloon Solar

Vodloon SOLAR

System Block Diagram



Item	Quantity		Description	Comments
PV	BSM565M10-72HPH	480	12 pieces/string; A total of 40 strings; A total of 268.8kWp	
Battery 860.16KWH (688.12KWH available at 80% DOD) Backup	BAT-Conbiner box 1000V-1500A	1	For combination of multiple battery racks	
	BLUESUN-51.2V 280AH moudle	60	Battery With BMU module 51.2V 280AH Capacity 14.3kWh	
	BIUESUN-HV-Controller1000V 300A	4	High Voltage Controller Box	
PV-Combiner Box	8 Inputs 1 Output	5	For combination of multiple PV module strings	
PBD250		1	250kW solar charge controller	
PCS250		1	250kW battery inverter	
Bypass 250		1	Switch between on-grid and off-grid	
EnerLog		1	Monitoring datalogger	
20FT Container		1	For outdoor installation, IP54,including lighting, fire-resitance system,battery rack,air conditioner	

Follow Us @Vodloon Solar

Vodloon SOLAR

Vodloon SOLAR

www.vodloon.com

Industrial Energy Storage System

Customized Proposal

PV Power	Equipment	Remark
VSC-100KW-307.2KWh	PV	109.1KWp (LR7-72HYD-625M*176)
	Inverter	250KW
	Battery	860KWh (LI: 10*51.2V/300Ah,2 Rack)

VSI Series

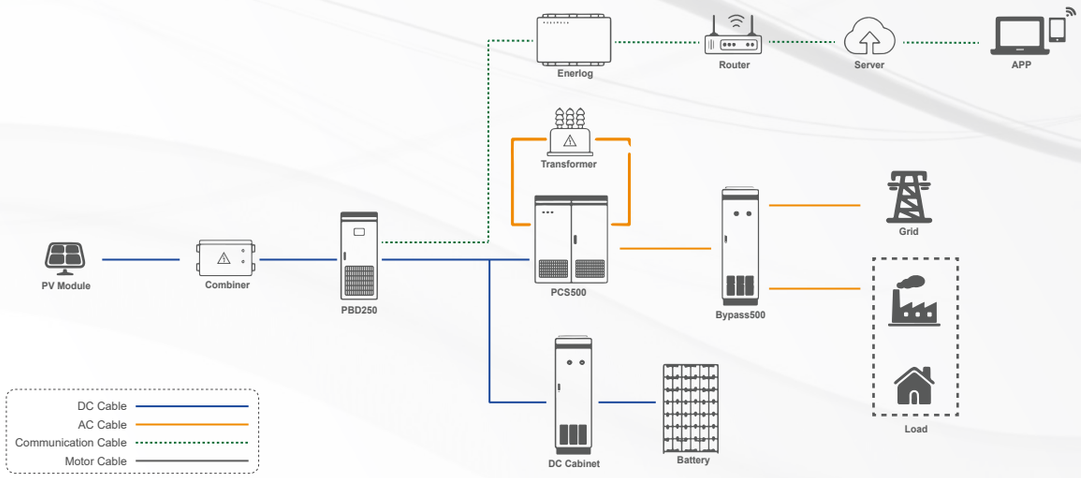
VSI- Container - 20FT

250KW-860KWh

- Provides the integrated system solution with one stop service
- Supports up to 300KW three-phase output
- The entire system has been fully tested and works perfectly



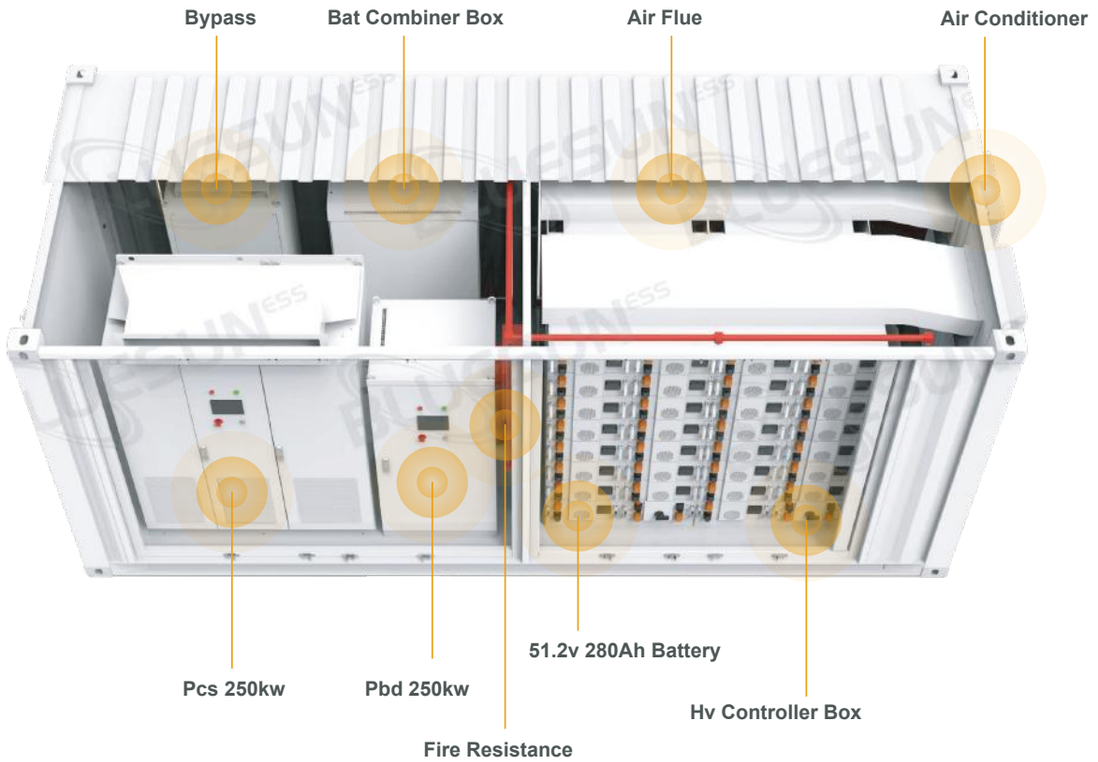
PRODUCT BLOCK DIAGRAM



Follow Us
@Vodloon Solar

Vodloon SOLAR

System Block Diagram



Item	Quantity		Description	Comments
PV	BSM565M10-72HPH	480	12 pieces/string; A total of 40 strings; A total of 268.8kWp	
Battery 860.16KWH (688.12KWH available at 80% DOD) Backup	BAT-Conbiner box 1000V-1500A	1	For combination of multiple battery racks	
	BLUESUN-51.2V 280AH moudle	60	Battery With BMU module 51.2V 280AH Capacity 14.3kWh	
	BIUESUN-HV-Controller1000V 300A	4	High Voltage Controller Box	
PV-Combiner Box	8 Inputs 1 Output	5	For combination of multiple PV module strings	
PBD250		1	250kW solar charge controller	
PCS250		1	250kW battery inverter	
Bypass 250		1	Switch between on-grid and off-grid	
EnerLog		1	Monitoring datalogger	
20FT Container		1	For outdoor installation, IP54,including lighting, fire-resitance system,battery rack,air conditioner	

Follow Us
@Vodloon Solar

Vodloon SOLAR