

Solarthon[®]

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Due to the continuous improvement of product technology, all data takes the latest data of the company's technical department as a change, and will not be notified separately.

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Solarthon[®]

Marathon Spirit, **Solarthon** Product

Industrial & Commercial

ENERGY STORAGE SYSTEM



COMPANY INTRODUCTION

Guangdong Solarthon Technology Co. Ltd. is an innovative high technology manufacturer with ISO 9001,TUV,SGS,UL,CE, IEC61215,IEC61730 ,CSA,CEC ,JET Our Solar PV module factory covers 55,000 Square Meters ,has more than 500 employees.

Specialized in R&D, manufacturing and marketing of photovoltaic (PV) inverters/solar inverter, Power Inverter,Solar charge controller, Solar powered battery , LED Lights, Industrial solar panel and some other related solar products. Our inovative solutions for all photovoltaic applications and our unsurpassed service offer our customers worldwide greater independence in meeting their energy needs.

We aim to develop, manufacture, and deliver the most reliable and cost-effective solar energy solutions to every corner in the world .

Our company has introduced a series of advanced equipment including automatic welding machine, automatic sorting machine, automatic test equipment and Rosh test machine, which ensure the high efficiency of the production, high quality and trace-ability of products. We have obtained ISO 9001/ ISO 14001/OHSAS 18001 certificates, and more than 100 invention patents ,practical new patent, software Copyrights. The research and development covers Solar Power Storage System, Half Cell Solar Panel, Standard Solar Panels ,Customized Solar Panel, Tier 1 Solar Panel, Off-grid Solar Batteries,Solar Hybrid Inverter, Solar Charger Controller, Solar Water Pump System.

Our products have also been exported to over 140 countries worldwide, such as Japan, USA,Europe,Australia, Nigeria.We also welcome OEM and ODM orders.Whether selecting a current product from our catalog or seeking engineering assistance for your application, you can talk to our customer service center about your sourcing requirements.

18⁺ Years Experience
140⁺ Countries' Customers
500⁺ Staff
55000⁺ Square Meters
70,000⁺ Projects Completed

GLOBAL STRATEGIC LAYOUT



COMPANY CERTIFICATE



EPR Certificate



NO.:5148440



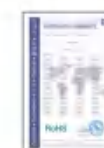
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NST21N010009R



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STON210901397-S



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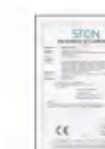
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STON211215575-EC



TUV017106EA



CE FOR INVERTER



CE FOR LITHIUM BATTERY



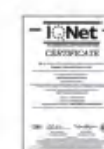
TUV FOR PANEL



CQC FOR PANEL(IEC61730)



CQC FOR PANEL(IEC61215)



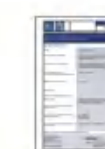
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ISO14001



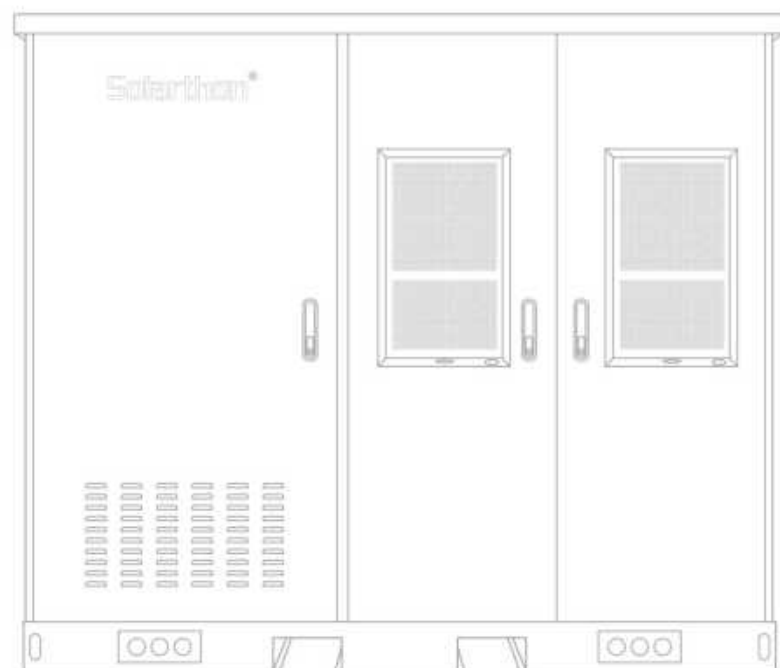
OHSAS18001



CB FOR INVERTER



CB FOR LITHIUM BATTERY



Energy Storage System

* ONE-STOP SOLAR ENERGY SYSTEM SOLUTION *

Industrial & Commercial Energy Storage System

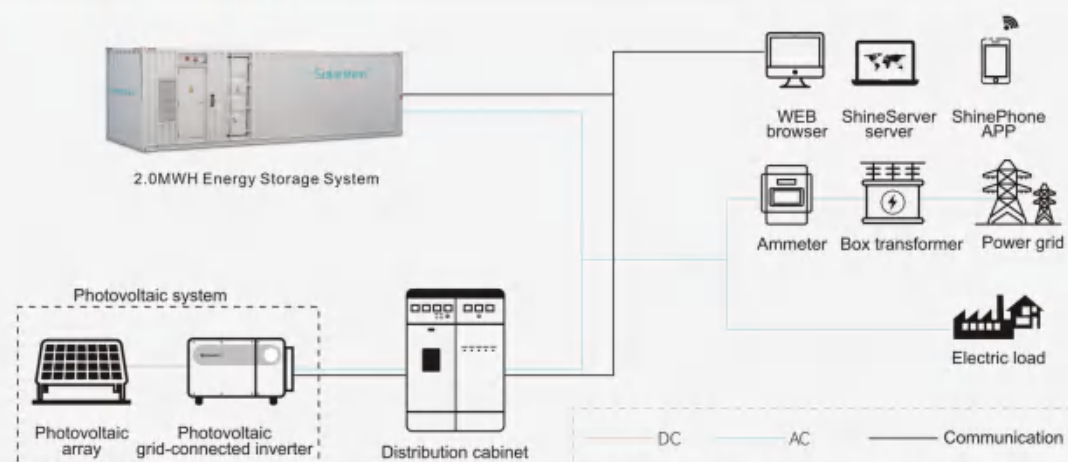
1.0MWH | 2.5MWH | 5.0MWH



Product Parameters

500KW PCS AND SOLAR CHARGER		1505KWh Battery Bank	
AC380V, 50/60Hz, 10MPPT 400VAC 50/60Hz		40-foot Container, Battery Cluster	
Max.PV Input Voltage	1000V	768V/1960AH	
MPPT Voltage Range	250~850V	EMS	
Max Efficiency 98.1%		BMS Three-Level Management System	
IP65, 5 Years Warranty		Electrical Equipment	
Size	1200x720+1600x1050mm	Auxiliary System	
Weight	3265kg		

Product Connection Diagram



Energy Storage System(ESS)

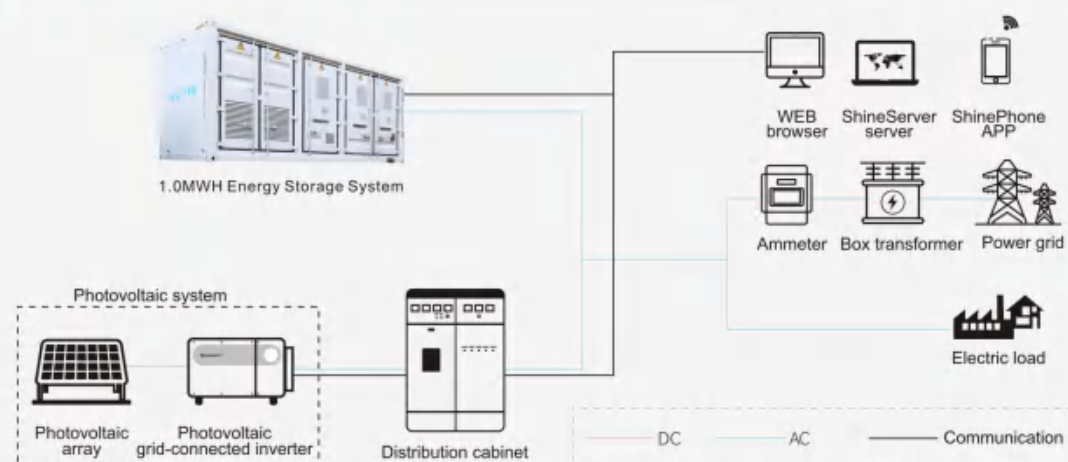
1075KWH



Product Parameters

500KW PCS AND SOLAR CHARGER		1075KWh Battery Bank	
AC380V, 50/60Hz, 10MPPT 400VAC 50/60Hz		20-foot Container, Battery Cluster	
Max.PV Input Voltage	1000V	768V/1400AH	
MPPT Voltage Range	250~850V	EMS	
Max Efficiency 98.1%		BMS Three-Level Management System	
IP65, 5 Years Warranty		Electrical Equipment	
Size	1200x720+1600x1050mm	Auxiliary System	
Weight	3265kg		

Product Connection Diagram



Distributed ESS Cabinet 100KW/215KWH



Product Parameters

Item	Values
Cell Parameter	
Cell type	Lithium iron phosphate
Single-cell cycle life	3.2V280Ah EOL70%8000 Time cycle life at (25°C DOD90% 0.5P/O.5P)
Configuration	1P240S
Rated voltage	768V
Voltage range	636V-876V
Nominal energy of the battery system	215kWh
AC Parameter	
Communication access method	three-phase four-wire
AC rated power	100kW
Maximum AC power	110kW
Rated voltage	400VAC
Rated frequency	50/60 Hz
Total current harmonic distortion rate	<3%
Voltage range	320-460VAC
PV Parameter	
PV maximum voltage	1000VDC
PV MPPT voltage range	250-850Vdc
System Parameter	
Maximum conversion efficiency	≥90%
Dimensions	2700×1100×2550mm
Weight	2.75T
Noise	<75dB
IP lever	Ip54
Ambient temperature	-20-60°C
Relative humidity	0-95%
Altitude	3000M
BMS BMS communication	5000m(Landing above 3000 meters)
EMS BMS communication	RS485,CAN



Distributed Cabinet

50KW/145KWH



Product Introduction

It is a series of lithium iron phosphate battery systems designed for energy storage systems. The battery system consists of a PC, outdoor cabinets, battery racks, and BMS, with intelligent HVAC integrated inside each cabinet. This system has significant advantages in safety, cycle life, energy density, fast charging, temperature range, and environmental protection.

Product Features

 **AIO design**
Providing integrated system solutions

 **Modular design**
Easy for maintenance

 **Friendly HMI and visual management**

 **CATL LFP battery cells;**
cycle life >6000 cycles

 **High-precision BMS improves stability and**
reliability, and the balancing function prolongs
battery cycle life

 **Equipped with EMS system, which can form**
a microgrid system with other energy sources

Application Scope

1.PV station 2.Wind Grid side power station 3.Frequency regulation 4.Grid side 5. Industrial and commercial

Product Parameters

Item	Values
Cell Parameter	
Cell type	Lithium iron phosphate
Single-cell cycle life	3.2V280Ah EOL70%6000 Time cycle life at (25°C DOD90% 0.5P/O.5P)
Configuration	1P160S
Rated voltage	768V
Voltage range	636V-876V
Nominal energy of the battery system	145kWh
AC Parameter	
Communication access method	Three-phase four-wire
AC rated power	50kW
Maximum AC power	55kW
Rated voltage	400VAC
Rated frequency	50/60 Hz
Total current harmonic distortion rate	<3%
Voltage range	320-460VAC
PV Parameter	
PV maximum voltage	1000VDC
PV MPPT voltage range	250-850Vdc
System Parameter	
Maximum conversion efficiency	≥90%
Dimensions	2100×1000×1850mm
Weight	2.1T
Noise	<75dB
IP lever	Ip54
Ambient temperature	-20-60°C
Relative humidity	0-95%
Altitude	3000M
BMS BMS communication	5000m(Landing above 3000 meters)
EMS BMS communication	RS485,CAN

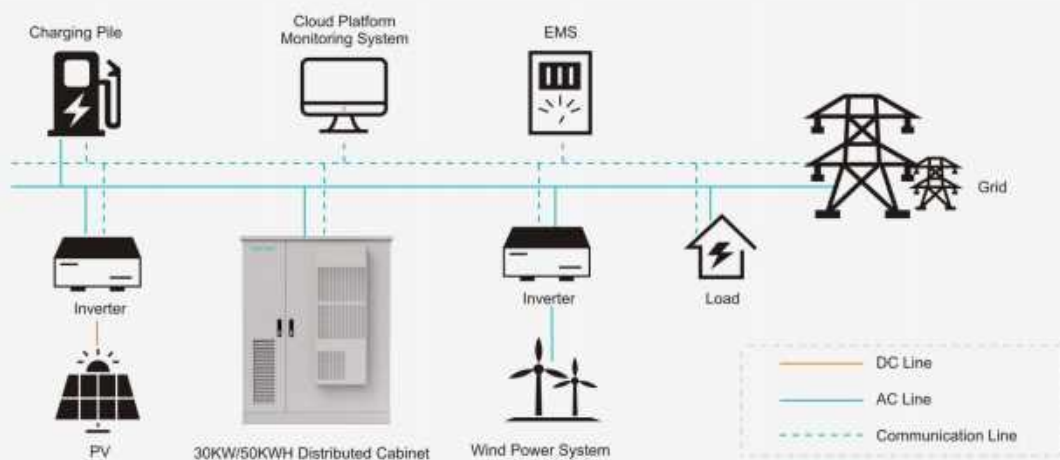
Distributed Cabinet 30KW/50KWH



Product Parameters

DQ1907B30K-01		Solar Charger	
Energy Storage System(ESS)		Max. PV Charge Power	19.2kW+19.2kW
LiFePO4 Battery	512V/100AH	Max. PV Input Voltage	850V
Battery Voltage Range	448~584V	MPPT Voltage Range	200-830V
Power Conversion System(PCS)		Outdoor Three-cabin Cabinet	
Rated Power	30KW	Size	2010*1600*1000mm
Rated AC Output Voltage	380V, 50Hz	Air Conditioner, 600W, 2 sets, Fire Fighting System	
AC Input Voltage Range	380V	Energy Management System(EMS) LCD monitor, RS485, CAN, TCP/IP	
DC Input Voltage Range	320~850V		

Product Connection Diagram



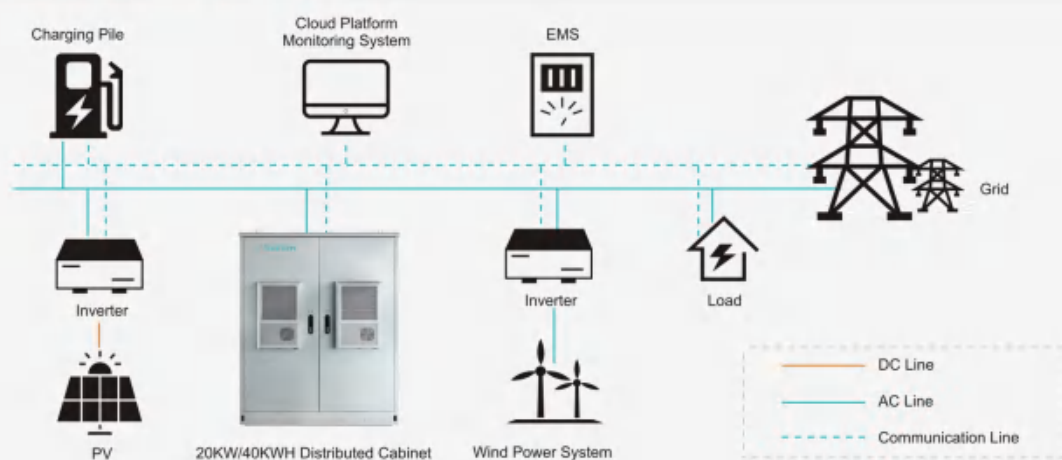
Distributed Cabinet 20KW/40KWH



Product Parameters

DQ1907A20K-01		Solar Charger	
Energy Storage System(ESS)		Max. PV Charge Power	26KW+26KW
LiFePO4 Battery	409.6V/100AH	Max. PV Input Voltage	1000V
Battery Voltage Range	358.4~467.2V	MPPT Voltage Range	150-850V
Power Conversion System(PCS)		Outdoor Three-cabin Cabinet	
Rated Power	20KW	Size	1750*1355*990mm
Rated AC Output Voltage	380V, 50Hz	Air Conditioner, 600W, 2 sets, Fire Fighting System	
AC Input Voltage Range	380V		
DC Input Voltage Range	160-700V		

Product Connection Diagram



ESS Professional Service Solution

We provide a wide range of professional energy storage system (ESS) service solutions, covering construction, maintenance, and operations for global customers.



Active Safety

Safe operations of devices and systems



Optimal Benefits

Optimal performance for less shutdown risks



Simple O&M

Professional and intelligent O&M support



ENERGY STORAGE PROJECT



Malaysia Power auxiliary service energy storage project



Malaysia Power auxiliary service energy storage project



Malaysia Power auxiliary service energy storage project

ENERGY STORAGE PROJECT



10MW 20 Sets Distributed ESS Cabinet Kenya Power auxiliary service energy storage project



100MW/200MWh Kenya Power auxiliary service energy storage project



10MW/20MWh Malaysia



10MW/20MWh Malaysia



6.5MW/24.4MWh Malaysia



9MW/4.5MWh



Brazil Power auxiliary service energy storage project



Brazil Power auxiliary service energy storage project



Brazil Power auxiliary service energy storage project



Brazil Power auxiliary service energy storage project



10MW DISTRIBUTED CABINET



10MW DISTRIBUTED CABINET



10MW/32MWh Malaysia



Brazil Power auxiliary service energy storage project

ESS Professional Service Solution

We provide a wide range of professional energy storage system (ESS) service solutions, covering construction, maintenance, and operations for global customers.



FLEXIBLE



STABLE



COMPATIBLE



PRODUCT LINE



TRANSPORT & INSTALLATION

