

Trusted Storage Solutions



Scott Power Solar Gel batteries are maintenance-free batteries with a special gel electrolyte made by mixing acid electrolyte with pyrogenic silica. The design uses pasted plate grids with a large surface area with grids casted from a special Lead-Calcium-Tin-Silver alloy that provides high corrosion resistance, and a special micro-porous synthetic separator.

Scott Power Solar Gel batteries provide a much higher cyclic life compared to the VRLA AGM batteries and operate better in a partial state of charge and in high ambient temperatures. These characteristics make it an ideal choice for SOLAR applications and for UPS applications that face long power outages and high temperature conditions. It's thus ideally designed to operate in environmental conditions prevalent in the Indian subcontinent, Africa, and much of South East Asia.

Technical Specification

Rating	Capacity (Watt hours at 27°C)	Dimensions (mm) ± 3mm				Normal Charging Current (A)	Short Circuit Current (A)	Internal Resistance (mΩ)	Battery Weight (Kg) ± 3%	Terminal Type
		Length	Width	Height	Total Height					
100AH	750	405.00	172.00	226.00	226.00	10.00	1350.00	9.20	33.00	T8
150AH	1000	485.00	170.00	242.00	242.00	12.00	1575.00	8.60	45.00	T8
200Ah	1250	522.00	238.00	225.00	225.00	14.00	1875.00	6.90	50.00	T8
200Ah	1500	522.00	238.00	225.00	225.00	16.00	2250.00	5.75	58.00	T8

*MODELS AND SPECS CAN CHANGES WITHOUT PRIOR NOTICE

Features

- Design life of 10 years at 27°C
- High purity Lead-Calcium-Tin-Silver alloy for good corrosion resistance
- Micro porous synthetic separators provide low electrical resistance
- Addition of phosphoric acid for improved cyclic life
- Cycle life of 500 cycles at 100% DoD and 1500 cycles at 40% DoD
- Very low thermal runaway effect due to silica gel composition
- High purity material ensuring low self-discharge
- Completely leak-proof and maintenance-free
- High impact ABS casing

Applications



Solar and wind energy storage



Solar street and traffic light



UPS with long backup



Radar and satellite stations



Tele-communications power supply



Home inverter



Power station systems and power plants



Medical equipments



Electric and recreational vehicles



Golf carts



Marine boats and equipments



Railway signalling systems

The Ultimate Power of Sustainability



Advantage

We Scott Power, technology-driven enterprise which specializes in manufacturing of PV solar modules (Poly / Multi crystalline photovoltaic) , with realization of its vision of providing sustainable, innovative and cost-effective solutions to India's ever-increasing energy needs.

We furnish the finest quality of Solar Power Panels in the market. The Solar Panels made available by us are scientifically developed for various applications pertaining to energy saving measures. They are remarkable for long lasting functional life. We offer them at most competitive rates in comparison to the ordinary market. We design custom systems and products to satisfy specific load and environmental requirements from a large selection of solar modules and balance of system component. Since many projects include a variety of requirements and special considerations, we offer specific Solar Modules manufactured as POWER WARRANTY is to be considered for 25 years.

Technical Specification

POLY CRYSTALLINE / MULTI CRYSTALLINE

Electrical Characteristics	SP1203	SP1205	SP1210	SP1215	SP1220	SP1230	SP1240	SP1250	SP1260
Pmax (Maximum Power at STC)	3	5	10	15	20	30	40	50	60
Voc (Open-circuit Voltage) in volt	21.90	21.90	21.90	21.95	22.00	22.00	22.00	22.00	22.00
Isc (ShortOCircuit Current) in Amps	0.42	0.63	0.63	0.95	1.21	1.21	2.45	3.03	3.62
Vmp (Maximum Voltage) in Volt	17.90	17.90	17.90	17.95	18.00	18.00	18.00	18.00	18.00
Imp (Current at Maximum Power)	0.34	0.57	0.57	0.84	1.21	1.67	2.24	2.25	3.33

Physical Parameters

Cells per module	18	18	36	36	36	36	36	36	36
Module Dimensions in mm (WxLxT)	186*186*22	186*286*22	307*354*22	351*466*22	351*466*22	366*660*22	666*466*34	666*539*34	666*666*34
Weight Approx. (Kg.)	NA	NA	1.2	1.2	3.0	4.0	4.0	4.8	5.5
Front Glass (Thickness)	3.2 mm Tempered								
Frame	Silver Anodized Aluminium Frame (Double Walled)								
Junction Box	IP65 rated	IP65 rated	IP65 rated	IP65 rated	IP65 rated	IP65 rated	IP65 rated	IP65 rated	IP65 rated

Standard Test Condition of 1000W/m² Irridance, AM 1.5@25 °C The tolerance at Pmax is±5%

Specifications

Connector	(Mp4) Amphenol
Cell Efficiency	18%
Encapsulation	Glass, EVA, Cell, Tedlar
Maximum System Voltage	1000V DC

Electrical Characteristics	SP1275	SP12100	SP12120	SP12150	SP24200	SP24250	SP24260	SP24280	SP24300
Pmax (Maximum Power at STC)	75	100	120	150	200	250	260	280	300
Voc (Open-circuit Voltage) in volt	22.10	22.15	22.30	22.50	43.80	44.50	44.70	44.70	45.00
Isc (ShortOCircuit Current) in Amps	4.55	6.10	7.50	8.72	6.10	7.45	7.70	8.40	8.75
Vmp (Maximum Voltage) in Volt	18	18	18.10	18.10	36.30	36.70	36.80	36.80	37.00
Imp (Current at Maximum Power)	4.20	5.60	6.92	8.31	5.52	6.82	7.07	7.63	8.11

Physical Parameters

Cells per module	36	36	36	36	72	72	72	72	72
Module Dimensions in mm (WxLxT)	666*776*34	666*1026*34	666*1256*34	666*1483*34	983*1429*35	983*1686*35	983*1686*35	983*1955*35	983*1955*35
Weight Approx. (Kg.)	6.5	8.9	11	13	14.5	19	19	22	22
Front Glass (Thickness)	3.2 mm Tempered								
Frame	Silver Anodized Aluminium Frame (Double Walled)								
Junction Box	IP65 rated	IP65 rated	IP65 rated	IP65 rated	IP65 rated	IP65 rated	IP65 rated	IP65 rated	IP65 rated

Standard Test Condition of 1000W/m² Irridance, AM 1.5@25 °C The tolerance at Pmax is±5%

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"We strive for excellence by providing the best product at competitive price right on time leading to customer happiness improvement in all our activities"



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Energy for everybody



Scott Power Solar Hybrid Inverter available in the range of 650VA, 850VA & 1000VA in 12V DC and 1450VA & 2000VA in 24V DC with inbuilt charge Controllers with wide choice of PV modules from 850Wp to 1700Wp. With unique feature of iSOT, it saves 1.5 to 3 Units per day thus substantial savings.

Features

- Operate on both Solar Power as well as Grid Power.
- It is integrated with in-built fully regulated PWM/MPPT* 50 AMPS Solar Charge Controller for max.
- Advanced DSP based technology for absolute and stable and 100% pure sine wave output.
- User- friendly LCD for the display of mode of operation and all parameters.
- Dual Mode of working : Inverter and Eco. • Programmable thermal protection.
- Real time clock technology. (ISSRC) • Charging current setting option.
- Charging battery even at low output voltage 100V.
- Option to set low battery cut-off voltage.

Technical Specification

Model	650VA	850VA	1000VA	1450VA	2000VA
Nominal Battery Voltage		12 VDC		24 VDC	
Solar Panel Connected for 50 Amps PWM/MPPT* Charge Controller (Max.)		850Wp		1700Wp	
AC Mains Mode					
Input Voltage Range (Eco Mode)		100 to 280 VAC ± 5 VAC (Wide Range)			
Input Voltage Range (Inv. Mode)		180 to 260 VAC ± VAC			
Changeover Time Maximum		< 30 ms (in Eco Mode) and < 10 ms (in Inv. Mode)			
Min. Charging Current (NC)		5A ± 1A			
Max. Charging Current (HC)		22A ± 1A			
Boost Charging Voltage		14.4 ± 0.2 VDC		28.8 ±0.4 VDC	
Float Charging Voltage		13.7 ± 0.2 VDC		27.4 ± 0.4 VDC	
Battery Backup Mode					
Output Voltage at No Load		220 VAC ± 7 VAC			
Output Frequency		50.0Hz ± 0.5Hz			
Output Wave Form (At No Load)		100% Pure Sine Wave			
Battery Low alarm		10.6 ± 0.2 VDC		21.2 ± 0.2 VDC	
Battery Low protection		10.4 ± 0.2 VDC		20.8 ± 0.2 VDC	
Overload (Eco / Inv.)		120%			
Short Circuit (Eco / Inv.)		300%			
Charging Mode - SOLAR (MPPT Charge Controller – 50 AMPS)					
Min. Charging Current (NC)		5 AMPS ± 1.5AMPS			
Max. Charging Current (HC)		50 AMPS ± 1.5AMPS			
Charge Controller Efficiency		> 98%			
Weight and Dimensions					
With Packaging L x W x H (in mm)		330X325X185			360X390X245
Without Packaging L x W x H (in mm)		275x253x111			275x303x165
Net Weight	8.65Kg	9.65Kg	9.9Kg	16.1Kg	18.3Kg
Gross Weight	9.45Kg	10.6Kg	10.7Kg	17.2Kg	19.5Kg

*MODELS AND SPECS CAN CHANGES WITHOUT PRIOR NOTICE

Load Chart*

Rating	650VA				850VA				1000VA				1450VA				2000VA			
Options	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
Computers	-	-	-	1	-	-	-	1	-	-	-	2	-	-	-	3	-	-	-	4
Printers	-	-	1	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1
Television	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	2	-
Tubelight	3	-	2	1	4	-	3	1	4	-	3	1	8	-	6	2	11	-	7	3
Fan	3	-	3	2	4	-	3	3	5	-	4	3	8	-	6	4	12	-	7	5
CFL	4	28	5	3	4	37	5	5	5	42	5	5	4	62	9	5	6	80	9	7



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Bringing light to remote areas



Scott Power LED Lantern connect rural with its unique mobile charging option and enlightens millions of lives with >9Hrs of backup which is ideal for general lighting and reading. It can be charged from mains too. It can also be used upside down.

Features

- PWM controlled charging • High power SMD LEDs • Intelligent product design • Multiple pin mobile charger • High class diffused acrylic cover • System shutdown after battery low point • Over Current. Short circuit protection • Visual charge indication • Technical Specifications • 3 step control intensity: back up time on full charging contusions 65Hrs on lowest level and 10hrs on highest level • SMD LEDs with 90% efficiency • 4.5Ah/6V poly crystalline PV module • Inbuilt protections for short circuit, over temp, over voltage, over current, over charge, deep discharge

Technical Specification

Description	Parameters
Solar Panel	5W/6V
Lithium battery	3.7V/400mAh (bottom) & 3.7/2000mAh (top)
LED Lights	21pcs LED (both at top & bottom)
LED Wattage	1.9W (each at top & bottom)
Lighting time (top)	About 18 hours at low mode About 10 hours at high mode
Lighting time (bottom)	About 30 hours at low mode About 16 hours at high mode
USB output	5V/0.5A, 5V/1.5A
Charging time	5 hours by 5W solar panel
Multi-function	Mosquito repellent, FM radio, Mp3 Player, 2 USB ports, Manual Charging via inbuilt dynamo, Mobile charging
Packaging	1pcs per color box 12 pcs / Master Carton Master carton size: 81586708330cm Gross Weight / Master Carton: 23.05kgs 168 Master cartons (2016pcs)/20' container 336 Master cartons (4032pcs)/40' container
Warranty	1 year

Salient Features



Mp3 Player



FM Radio



Mosquito Repellent



Mobile Charger

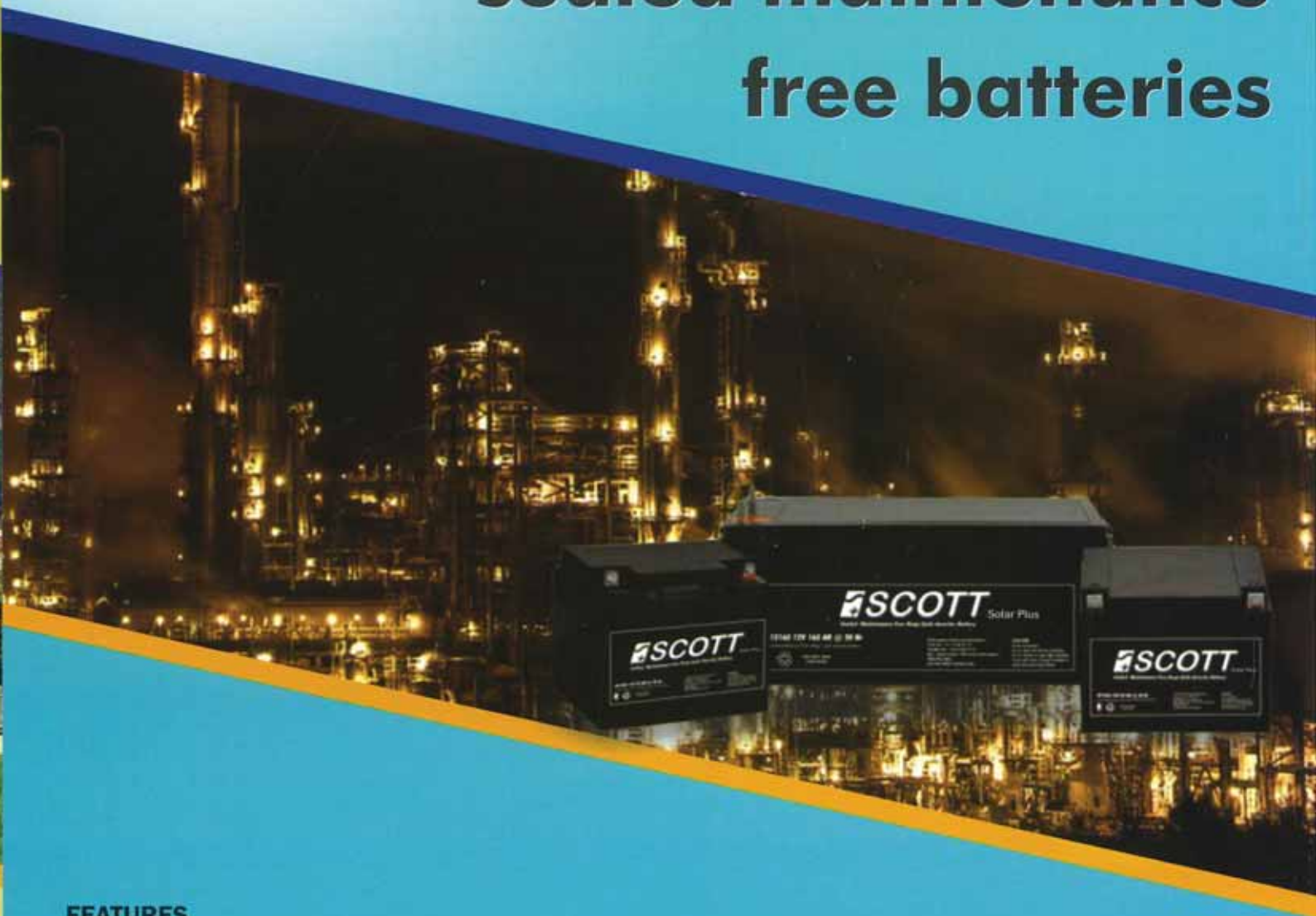


2 USB Ports



Inbuilt Dynamo

High convenience sealed maintenance free batteries



FEATURES

- Absorbent Glass Mat (AGM) technology for efficient gas recombination
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- No effect float or cyclic application under controlled depth of discharge (DoD)
- Freedom from electrolyte maintenance or water adding
- Rubber safety valve
- Lead calcium alloy

SERVICE LIFE

- 3 to 5 years expected service life under normal float charge condition at 20°C
- Cycle service life: 400 to 500 cycle at 50% D.O.D. 100 to 1200 cycle at 30% D.O.D.
- Extended shelf life (Up to 12 months at 20°C)

Technical Specification

20H Rated Capacity (AH)	Nominal Voltage	Length	Width	Height	Weight (approx.)		Max Charging	Current (Discharging)
		mm ±2%	mm ±2%	mm ±2%	Kg +/- 3%	Pound +/- 3%	Current (Amps)	Current (5 secs) (Amps)
7AH/12V	12	151	65	93.5	2.1	4.63	2.1	70
9AH/12V	12	151.5	65	93.5	2.55	5.63	2.7	90
12AH/12V	12	151	98	95	3.60	7.94	3.6	120
18AH/12V	12	181	77	167	5	11.03	5.4	180
26AH/12V	12	166	175	125	8.6	19.00	7.8	260
40AH/12V	12	198	166	171	13.2	29.10	12	400
55AH/12V	12	229	138	235	18.00	39.7	16.5	550
65AH/12V	12	350	167	180	22.5	49.60	21	700
100AH/12V	12	328	172	222	30	66.14	30	1000
150AH/12V	12	483	170	240	44.5	98.11	54	1500
200AH/12V	12	522	240	219	61.00	134.48	60	2000

Instructions

Charging

- Follow constant potential current-limited charging as specified
- Avoid parallel charging. If unavoidable. Make maximum two parallel strings.

Discharging

- The battery must be immediately recharged after discharge, especially if it has been over discharged.
- Do not keep the battery in a discharged condition for long duration.

Operation

- Avoid mix use of batteries with different capacities and makes because the difference in characteristics can cause damage to the battery or equipment.
- Do not use organic solvents to clean the batteries.
- Do not install the batteries close to heat sources like direct sunlight or air condition exhausts etc.
- Do not short-circuit the batteries.
- Do not solder battery terminals.

STORAGE

- Ambient temperature for storage will be within the range of 20°C to 35°C.
- Storage battery in a dry and cool place.
- During storage, recharge the battery once every 3 months for optimum performance and life.

Applications



Solar and wind energy storage



UPS with long backup



Fire Alarm & Security Systems



Tele-communications power supply



Home Inverter



Power station systems and power plants



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Energy for everybody



SCOTT True Hybrid Solar Home PCU is the most innovative and advance PCU that runs both on solar power (generated through solar panels) and the utility (grid) power supply. SCOTT True Hybrid Solar Home PCU is the advanced solar hybrid home PCU which charge the battery thru readily available solar energy/ Mains by using it's artificial intelligence. It's ISSRC logic use Solar Power for its maximize utilization to empower homes.

Features

- Operate on both Solar Power as well as Grid Power.
- It is integrated with in-built fully regulated PWM/MPPT* 70 AMPS Solar Charge Controller for max.
- Special TDR (Time Delay Relay), for compressor based applications like AC. (Optional)
- Capability of Surge Load upto 300% and Extremely low Total Harmonic Distortion (<3%).
- No mechanical contact for charge controller. Dual Mode of working : Inv. and Eco
- Programmable thermal protection. • Real time clock technology. (ISSRC) • Charging current setting option.
- Charging battery even at low output voltage 100V. • Option to set low battery cut-off voltage.

Technical Specification

Model	2KVA/2.5KVA/3.5KVA/5KVA/7.5KVA/10KVA/12KVA/15KVA
AC Mains Mode	
Input Voltage Range (Eco Mode)	100 to 280 VAC \pm 5 VAC (Wide Range)
Input Voltage Range (Inv. Mode)	180 to 260 VAC \pm VAC
Changeover Time Maximum	< 30 ms (in Eco Mode) and < 10 ms (in Inv. Mode)
Min. Charging Current (NC)	5A \pm 1A
Max. Charging Current (HC)	22A \pm 1A
Boost Charging Voltage	14.4 \pm 0.2 VDC per Batt.
Float Charging Voltage	14.4 \pm 0.2 VDC per Batt.
Battery Backup Mode	
Output Voltage at No Load	220 VAC \pm 7 VAC
Output Frequency	50.0Hz \pm 0.5Hz
Output Wave Form (At No Load)	100% Pure Sine Wave
Battery Low alarm	10.6 \pm 0.2 VDC per Batt.
Overload (Eco / Inv.)	120%
Short Circuit (Eco / Inv.)	300%
Battery Low protection	10.4 \pm 0.2 VDC per Batt.
Charging Mode – SOLAR (PWM/MPPT* Charge Controller – 70 AMPS)	
Min. Charging Current (NC)	5 AMPS \pm 1.5AMPS
Max. Charging Current (HC)	70 AMPS \pm 1.5AMPS
Charge Controller Efficiency	> 98%

*MODELS AND SPECS CAN CHANGES WITHOUT PRIOR NOTICE

Load Chart*							
Application	Load Type	2.5KVA	3.5KVA	5KVA	7.5KVA	10KVA	12KVA
Petroleum Outlet	Fan	-	1	4	5	5	5
	Tube Light	-	5	4	5	8	8
	Petrol Filling Machine	-	1	2	3	4	5
Institute	Fan Only	25	30	50	75	100	110
	Fan	15	18	35	55	70	75
	Tube Light	13	17	20	35	40	50
Browsing Centre	A.C.	-	-	1	1	2	2
	Fan	4	5	4	8	8	10
	Tube Light	4	6	4	8	8	10
	Computer	5	6	2	6	6	6
Browsing Centre	Fan	4	5	10	12	20	25
	Tube Light	4	6	10	12	20	25
	Computer	5	6	8	12	15	20
Corporate Bulding	A.C.	-	-	1	1	1	2
	Fan	15	18	8	12	16	20
	Tube Light	13	17	8	12	16	20



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Uninterrupted Power Back-up for all



Advantage

- Highly reliable compared to normal flat plate batteries.
- The spine of Tubular Batteries are made using High pressure HADI casting method which ensures long life even under heavy temperature and rough usage.
- Perform consistently under any conditions hence suitable for sensitive and heavy applications.
- Faster charging is one the notable feature in Tubular batteries.
- Low maintenance – No need to top-up with distilled water frequently.
- Long Standby life compared to flat pasted plate batteries.
- Recommended for inverters

Technical Specification

Model Name	Nominal Voltage (V)	C10 capacity upto 1.85VPC @ 27°C (Test gravity 1.240 @ 27°C)		Length ± 3%	Width ± 3%	Height (Include Terminals) ± 3%	Dry Weight ± 3%	Filled Weight ± 3%	Electrolyte Volume
		Ah	KWH	mm	mm	mm	Kg	Kg	Litre
SP1220L	12	20	0.24	260.00	173.00	225.00	8.2	13.5	4.3
SP1220H	12	20	0.24	260.00	173.00	225.00	9.5	14.2	3.8
SP1240L	12	40	0.48	410.00	176.00	233.00	13.3	22.8	7.7
SP1240H	12	40	0.48	410.00	176.00	233.00	15.1	23.3	6.6
SP1275L	12	75	0.9	505.00	220.00	292.00	18.1	36.3	14.7
SP1275H	12	75	0.9	505.00	220.00	258.00	23.5	35.8	12.3
SP12100L	12	100	1.2	505.00	220.00	292.00	27.00	45.2	14.7
SP12100H	12	100	1.2	505.00	220.00	292.00	28.4	46.6	14.7
SP12135H	12	135	1.62	517.00	272.00	250.00	32.5	49.1	13.4
SP12150H	12	150	1.8	503.00	189.00	411.00	37.00	61.00	21.00
SP12200L	12	500	2.40	503.00	189.00	411.00	41.5	65.5	19.00

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Features

- Extremely high purity, corrosion-resistant proprietary spine alloy composition ensures longer battery service life
- Tubular plate construction ensures uniform distribution of positive active
- Extra-strong, flexible oxidation-resistant gauntlet for higher performance and extremely long life
- Plates designed for improved charge acceptance

Applications



Home Inverter



UPS with long backup



Solar and wind energy storage



Radar and satellite stations



Medical equipments



Golf carts



Marine boats and equipments



Railway signalling systems



Tele-communications power supply



Solar street and traffic light



Electric and recreational vehicles



Power station systems and power plants



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