

SEC All Product Brochure




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Product select guide


	TLAM	CMT	2-TLA	MP	MRT	6/12-TLA	TUA	FTA	UPS	TLGM
 Airport	✓	✓	✓						✓	
 Emergency light supply				✓	✓	✓	✓			
 Grid service	✓	✓	✓							✓
 Industrial standby	✓	✓	✓	✓	✓	✓	✓		✓	✓
 Marine										
 Medical				✓	✓	✓	✓			
 Motive										
 Oil&gas	✓	✓	✓						✓	✓
 Railway								✓		
 Renewables										✓
 Tele-communication	✓	✓	✓					✓		
 UPS solution	✓	✓	✓	✓	✓	✓	✓		✓	

Market



Product



AGM


						✓				✓	✓	
										✓		
✓	✓	✓					✓			✓		
✓	✓						✓	✓	✓	✓	✓	
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CMTG

2-TLG

ETG

6/12-TLG

TSG

FTG

ETGB

TRA

NICACELL

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ML

RML

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Flooded

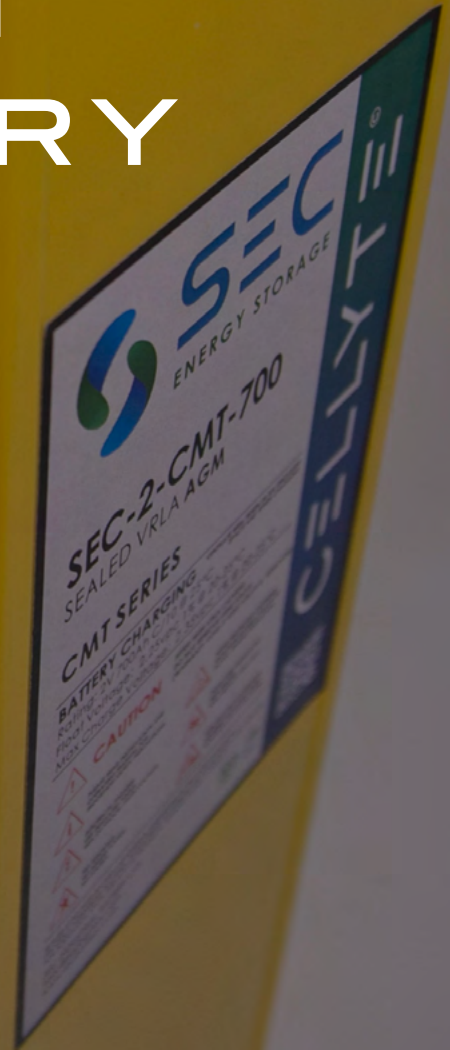
NiCd

Lithium ion



VALVED REGULATED LEAD ACID (VRLA)

AGM BATTERY



TLAM



SEC's Cellyte TLAM series is an industry-leading single cell range. The heavy-duty Lead Calcium plates and the valve-regulated design make it virtually maintenance-free with a long float life.



Product specification

Positive electrode:	Lead Calcium Tin grid alloy
Negative electrode:	Lead Calcium grid alloy
Float voltage:	2.25 - 2.30 vpc ± 1% at 25°C
Max. charge voltage:	2.50 vpc ± 1% at 25°C
Electrolyte:	Sulphuric acid absorbed into AGM separator
Safety valve:	1-3 psi self-resealing
Separators:	Absorbent glass mat (AGM) separator



Design life

15-years in float service @ 30°C with an approved catalyst

1050 cycles @ 80% DOD @ 25°C



Capacity range

2V 100 - 1600 Ah

Product Benefits



- Reliable VRLA AGM design
- Fitted with CatVent™ catalyst
- Suited for vertical and horizontal rack use
- Performs under temperature fluctuation
- Higher power and efficiency
- Optimised grid design and paste formation
- Extended battery life and cycle service
- ISO:9001 approved

Product compliance



- IEC 60896-21/22-2004
- BS 6290 part 4
- UL Component Approval
- Eurobat

CMT



The Cellyte CMT is our flagship large-capacity VRLA. It's globally acclaimed for its premium performance in high-specification standby systems and has been in production for over three decades.



Product specification

Positive electrode:	Lead Calcium high Tin grid alloy
Negative electrode:	Lead Calcium grid alloy
Float voltage:	2.25 - 2.30 vpc ± 1% at 25°C
Max. charge voltage:	2.50 vpc ± 1% at 25°C
Electrolyte:	Sulphuric acid absorbed into AGM separator
Safety valve:	1-3 psi self-resealing
Separators:	Absorbent glass mat (AGM) separator



Design life

20-years in float service @ 30°C with an approved catalyst

1200 cycles @ 80% DOD @ 25°C



Capacity range

2V 100 - 1600 Ah

Product Benefits



- Reliable VRLA AGM design
- Fitted with CatVent™ catalyst
- Suited for vertical and horizontal rack use
- Performs under temperature fluctuation
- Higher power and efficiency
- Optimised grid design and paste formation
- Extended battery life and cycle service
- ISO:9001 approved

Product compliance



- IEC 60896-21/22-2004
- BS 6290 part 4
- UL Component Approval
- Eurobat

2-TLA



The Cellyte 2TLA range provides industry-leading performance at a competitive price. With a proven 15-year battery life, the Cellyte 2TLA is engineered to the highest standards and suits all general standby applications.



Product specification

Positive electrode:	Lead Calcium Tin grid alloy
Negative electrode:	Lead Calcium grid alloy
Float voltage:	2.25 - 2.30 vpc ± 1% at 25°C
Max. charge voltage:	2.50 vpc ± 1% at 25°C
Electrolyte:	Sulphuric acid absorbed into AGM separator
Safety valve:	1-3 psi self-resealing
Separators:	Absorbent glass mat (AGM) separator



Design life

15-years in float service @ 30°C with an approved catalyst

500 cycles @ 80% DOD @ 25°C



Capacity range

2V 50 - 3000 Ah

Product Benefits



- Very low maintenance
- Enhanced pressure release system
- Excellent gas recombination
- Long life in operation and storage
- Wide operating temperature range
- Suited for multiple application

Product compliance



- IEC 60896-21/22-2004
- BS 6290 part 4
- UL Component Approval
- Eurobat

MP



The Microlyte MP series is suitable for all general standby applications at the more cost-sensitive end of the market. Using valve-regulated AGM technology, the MP is spill-proof and leak-proof for extra safety.



Product specification

Positive electrode:	Lead Calcium Tin grid alloy
Negative electrode:	Lead Calcium grid alloy
Float voltage:	2.25 - 2.30 vpc ± 1% at 25°C
Max. charge voltage:	2.50 vpc ± 1% at 25°C
Electrolyte:	Sulphuric acid absorbed into AGM separator
Safety valve:	1-3 psi self-resealing
Separators:	Absorbent glass mat (AGM) separator



Design life

8 years in float service @ 25°C *

200 cycles @ 80% DOD @ 25°C



Capacity range

6V 1.2 - 205 Ah

12V 1.2 - 250 Ah

Product Benefits



- increased safety
- long design and shelf life
- extremely low maintenance
- Quick charging
- Product consistency
- High energy rating

Product compliance



- IEC 60896-21/22-2004
- BS 6290 part 4
- UL Component Approval
- Eurobat

* Applies to battery from 35Ah onwards.

MRT



The MRT AGM is a versatile battery suited to a wide range of applications. Crafted with high tin plates it's an energy dense battery with a long float life and renowned cycling capability.



Product specification

Positive electrode:	Lead Calcium high Tin grid alloy
Negative electrode:	Lead Calcium grid alloy
Float voltage:	2.25 - 2.30 vpc ± 1% at 25°C
Max. charge voltage:	2.50 vpc ± 1% at 25°C
Electrolyte:	Sulphuric acid absorbed into AGM separator
Safety valve:	1-3 psi self-resealing
Separators:	Absorptive glass mat (AGM) separator

Product Benefits



- ISO:9001 approved
- Increased safety
- Universal design and shelf life
- Highly efficient
- Excellent product consistency
- Long-lasting
- High-quality component
- low self-discharge



Design life

10-years in float service @ 25°C *
250 cycles @ 80% DOD @ 25°C



Capacity range

6V	9.5 - 210 Ah
12V	3 - 248 Ah

Product compliance



- IEC 60896-21/22-2004
- BS 6290 part 4
- UL Component Approval
- Eurobat

6/12-TLA



The Cellyte 6/12-TLA series of powerful VRLA standby batteries are constructed with safety as a priority. A true industry workhorse, the 6/12-TLA range offers long, reliable service at a conservative price point.



Product specification

Positive electrode:	Lead Calcium Tin grid alloy
Negative electrode:	Lead Calcium grid alloy
Float voltage:	2.25 - 2.30 vpc ± 1% at 25°C
Max. charge voltage:	2.50 vpc ± 1% at 25°C
Electrolyte:	Sulphuric acid absorbed into AGM separator
Safety valve:	1-3 psi self-resealing
Separators:	Absorptive glass mat (AGM) separator

Product Benefits



- ISO:9001 approved
- Increased safety
- Universal design and shelf life
- Highly efficient
- Excellent product consistency
- Long-lasting
- High-quality component
- low self-discharge



Design life

10-years in float service @ 25°C
250 cycles @ 80% DOD @ 25°C



Capacity range

6V	117 - 205 Ah
12V	15 - 240 Ah

Product compliance



- IEC 60896-21/22-2004
- BS 6290 part 4
- UL Component Approval
- Eurobat

* Applies to battery from 35Ah onwards.

TUA



Long lasting service for mission-critical, heavy-duty applications. The TUA offers consistent performance and rugged durability. The addition of a CatVent™ catalyst provides a low gassing, explosion-proof battery.



Product specification

Positive electrode:	Lead Calcium high Tin grid alloy
Negative electrode:	Lead Calcium grid alloy
Float voltage:	2.25 - 2.30 vpc ± 1% at 25°C
Max. charge voltage:	2.50 vpc ± 1% at 25°C
Electrolyte:	Sulphuric acid absorbed into AGM separator
Safety valve:	1-3 psi self-resealing
Separators:	Absorbent glass mat (AGM) separator

Product Benefits



- Long life in operation and storage
- Very low maintenance
- Patented valve system
- Wider operating temperature range
- Suited for multiple application
- ISO:9001 approved



Design life

12-years in float service @ 30°C with an approved catalyst

340 cycles @ 80% DOD @ 25°C



Capacity range

6V	120 - 205 Ah
12V	16 - 244 Ah

Product compliance



- IEC 60896-21/22-2004
- BS 6290 part 4
- UL Component Approval
- Eurobat

FTA



The SEC Cellyte FTA series of VRLA AGM monoblocs was designed for rack-mounted applications. These power-dense, maintenance-free, monoblocs feature heavy-duty plates to ensure reliability, safety, and optimum performance at all times.



Product specification

Positive electrode:	Lead Calcium high Tin grid alloy
Negative electrode:	Lead Calcium grid alloy
Float voltage:	2.25 - 2.30 vpc ± 1% at 25°C
Max. charge voltage:	2.50 vpc ± 1% at 25°C
Electrolyte:	Sulphuric acid absorbed into AGM separator
Safety valve:	1-3 psi self-resealing
Separators:	Absorbent glass mat (AGM) separator

Product Benefits



- Safe AGM design
- Rugged construction
- Added vented venting feature
- Extra wide temperature range
- Ideal for rack-mounted applications
- Low maintenance
- Maximum operating life
- low self-discharge



Design life

12-years in float service @ 30°C with an approved catalyst

250 cycles @ 80% DOD @ 25°C



Capacity range

12V	45 - 175 Ah
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Product compliance



- IEC 60896-21/22-2004
- BS 6290 part 4
- UL Component Approval
- Eurobat

UPS



The Cellyte UPS provides consistent, high-power performance at a low cost. Abuse-resistant, it boasts a long service life. The Cellyte UPS will meet both your critical power and economic needs.



Product specification

Positive electrode:	Deep cycle Lead Calcium high Tin Aluminium grid
Negative electrode:	Standard Lead Calcium Tin Aluminium grid
Float voltage:	2.25 - 2.30 vpc \pm 1% at 25°C
Max. charge voltage:	2.50 vpc \pm 1% at 25°C
Electrolyte:	Sulphuric acid absorbed into AGM separator
Safety valve:	1-3 psi self-resealing
Separators:	Absorbent glass mat (AGM) separator



Design life

12-years in float service @ 30°C with an approved catalyst

340 cycles @ 80% DOD @ 25°C



Capacity range

6V	190 Ah
12V	22.3 - 152 Ah

Product Benefits



- High power rating
- Minimum maintenance requirement
- High power efficiency
- Excellent product consistency
- Reliable under temperature fluctuation
- Abuse resistant

Product compliance



- IEC 60896-21/22-2004
- BS 6290 part 4
- UL Component Approval
- Eurobat

GEL BATTERY

SEC ENERGY STORAGE

SEC-12-ETGB-160
ETGB SERIES SEALED VRLA Tubular Plate GEL

BATTERY CHARGING
Rating: 12V 160Ah C/10 1.8 vpc @ 25°C
Float Voltage 2.25 vpc ±1% @ 20-25°C
Max Charge Voltage 2.35 vpc ±1% @ 20-25°C

PLEASE READ INSTALLATION AND OPERATING MANUAL FOR IMPORTANT SAFETY PRECAUTIONS!

ELECTRICAL HAZARD!
USE INSULATED TOOLS
RISK OF SHOCK, HIGH VOLTAGE

WEAR PROTECTIVE CLOTHING
EXPLOSIVE GASES CAN CAUSE INJURY, ENGINE VENTILATION

RINSE EYES IMMEDIATELY WITH WATER
SEEK MEDICAL HELP FIRST

CAUTION!
DO NOT REMOVE VENT VALVE
(WARRANTY VOID IF VENT VALVE IS REMOVED)

ELECTROLYTE IS CORROSIVE
ACIDIC ALKALI CAN CAUSE BURNING OR SEVERE BURNS

NO SMOKING
NO BARED FLAMES
NO SPARKS

CELLYTE®

SEALED LEAD-ACID BATTERY DESIGNED & ENGINEERED IN THE UNITED STATES OF AMERICA. ACCORDING TO CANADA, PLEASE REFER TO MANUAL FOR VEHICLE TYPE AND SERVICE.

SEC INDUSTRIAL BATTERY CO.
hello@secbattery.com
www.secbattery.com

TLGM



The SEC Cellyte TLGM Gel series was engineered specifically for demanding operational environments. This range of VRLA single cell batteries offers superior cycling capability and a long service life.



Product specification

Positive electrode:	Lead Calcium Tin grid alloy
Negative electrode:	Lead Calcium grid alloy
Float voltage:	2.25 - 2.30 vpc ± 1% at 25°C
Max. charge voltage:	2.35 vpc ± 1% at 25°C
Electrolyte:	Thixotropic high purity silica Gel electrolyte
Safety valve:	1-3 psi self-resealing
Separators:	Microporous separator



Design life

15-years in float service @ 30°C with an approved catalyst

1300 cycles @ 80% DOD @ 25°C



Capacity range

2V 100 - 1500 Ah

Product Benefits



- Reliable VRLA AGM design
- Fitted with CatVent™ catalyst
- Suited for vertical and horizontal rack use
- Performs under temperature fluctuation
- Higher power and efficiency
- Optimised grid design and paste formation
- Extended battery life and cycle service
- ISO:9001 approved

Product compliance



- IEC 60896-21/22-2004
- BS 6290 part 4
- UL Component Approval
- Eurobat

CMTG



The Cellyte CMTG series is SEC's flagship large capacity VRLA gel range. We've combined the benefits of gel electrolyte to build a deep cycling performer with an extremely long service life.



Product specification

Positive electrode:	Lead Calcium high Tin grid alloy
Negative electrode:	Lead Calcium grid alloy
Float voltage:	2.25 - 2.30 vpc ± 1% at 25°C
Max. charge voltage:	2.35 vpc ± 1% at 25°C
Electrolyte:	Thixotropic high purity silica Gel electrolyte
Safety valve:	1-3 psi self-resealing
Separators:	Microporous separator



Design life

20-years in float service @ 30°C with an approved catalyst

1500 cycles @ 80% DOD @ 25°C



Capacity range

2V 100 - 1500 Ah

Product Benefits



- Reliable VRLA AGM design
- Fitted with CatVent™ catalyst
- Suited for vertical and horizontal rack use
- Performs under temperature fluctuation
- Higher power and efficiency
- Optimised grid design and paste formation
- Extended battery life and cycle service
- ISO:9001 approved

Product compliance



- IEC 60896-21/22-2004
- BS 6290 part 4
- UL Component Approval
- Eurobat

2-TLG



The Cellyte 2-TLG series is perfect for deep-cycle applications where rugged reliability is crucial. Featuring thixotropic gelled electrolyte combined with thick Lead Calcium grids. This tough monobloc boasts superior cycling capability and long service life.



Product specification

Positive electrode:	Lead Calcium Tin grid alloy
Negative electrode:	Lead Calcium grid alloy
Float voltage:	2.25 - 2.30 vpc ± 1% at 25°C
Max. charge voltage:	2.35 vpc ± 1% at 25°C
Electrolyte:	Thixotropic high purity silica Gel electrolyte
Safety valve:	1-3 psi self-resealing
Separators:	Microporous separator

Product Benefits



- Reliable VRLA design
- Performs well under variable temperature conditions
- Well Sealed for extra safety
- High power and efficiency
- Optimised grid design and paste formation
- Extended battery life and cycle service



Design life

15-years in float service @ 30°C with an approved catalyst

650 cycles @ 80% DOD @ 25°C



Capacity range

2V

150 - 1000 Ah

Product compliance



- IEC 60896-21/22-2004
- BS 6290 part 4
- UL Component Approval
- Eurobat

ETG



SEC's Cellyte ETG is an OPzV VRLA tubular plate gel series that incorporates SEC CatVent technology to ensure extreme durability. The ETG is a high cycling, low-maintenance premium range for off grid sites.



Product specification

Positive electrode:	Tubular design plate with optimised corrosion defense and creep resistant, Calcium Tin Lead alloy
Negative electrode:	Flat plate utilising Lead Calcium low gassing grid alloy
Float voltage:	2.25 - 2.30 vpc ± 1% at 25°C
Max. charge voltage:	2.35 vpc ± 1% at 25°C
Electrolyte:	Thixotropic high purity silica Gel electrolyte
Safety valve:	1-3 psi self-resealing
Separators:	Microporous separator

Product Benefits



- Extended lifetime
- High energy rating
- Absolute reliability under harsh conditions
- increased safety
- Maintenance free
- Relatively quick charging



Design life

20-years in float service @ 30°C with an approved catalyst

3000 cycles @ 80% DOD @ 25°C



Capacity range

2V

100 - 3000 Ah

Product compliance



- IEC 60896-21/22-2004
- BS 6290 part 4
- UL Component Approval
- Eurobat

6/12-TLG



The Cellyte 6/12-TLG series is perfect for deep-cycle applications where rugged reliability is crucial. Featuring thixotropic gelled electrolyte combined with thick Lead Calcium grids. This tough monobloc boasts superior cycling capability and long service life.



Product specification

Positive electrode:	Lead Calcium Tin grid alloy
Negative electrode:	Lead Calcium grid alloy
Float voltage:	2.25 - 2.30 vpc ± 1% at 25°C
Max. charge voltage:	2.35 vpc ± 1% at 25°C
Electrolyte:	Thixotropic high purity silica Gel electrolyte
Safety valve:	1-3 psi self-resealing
Separators:	Microporous separator



Design life

10-years in float service @ 25°C
400 cycles @ 80% DOD @ 25°C



Capacity range

6V	105 - 202 Ah
12V	14.9 - 235 Ah

Product Benefits



- Reliable VRLA design
- Performs well under variable temperature conditions
- Well Sealed for extra safety
- High power and efficiency
- Optimised grid design and paste formation
- Extended battery life and cycle service

Product compliance



- IEC 60896-21/22-2004
- BS 6290 part 4
- UL Component Approval
- Eurobat

TSG



The TSG is a flat plate monobloc built for deep cycling applications. The Cat-Vent catalyst reduces float current and extends service life to provide a solar battery with superior cycling capability.



Product specification

Positive electrode:	Lead Calcium high Tin grid alloy
Negative electrode:	Lead Calcium grid alloy
Float voltage:	2.25 - 2.30 vpc ± 1% at 25°C
Max. charge voltage:	2.50 vpc ± 1% at 25°C
Electrolyte:	Sulphuric acid absorbed into AGM separator
Safety valve:	1-3 psi self-resealing
Separators:	Absorbent glass mat (AGM) separator



Design life

12-years in float service @ 30°C with an approved catalyst
420 cycles @ 80% DOD @ 25°C



Capacity range

6V	105 - 202 Ah
12V	14.9 - 235 Ah

Product Benefits



- High power rating
- Extended lifetime
- Exceptional operating costs over time
- Virtually maintenance free
- increased safety
- Excellent product consistency

Product compliance



- IEC 60896-21/22-2004
- BS 6290 part 4
- UL Component Approval
- Eurobat

FTG



True Gel technology meets VRLA mechanics in the Cellyte FTG Series. The result is a front terminal range with outstanding deep-cycle capability. The FTG series is perfect for hybrid telecom applications or supplementing unreliable grids.



Product specification

Positive electrode:	Lead Calcium high Tin grid alloy
Negative electrode:	Lead Calcium grid alloy
Float voltage:	2.25 - 2.30 vpc ± 1% at 25°C
Max. charge voltage:	2.35 vpc ± 1% at 25°C
Electrolyte:	Thixotropic high purity silica Gel electrolyte
Safety valve:	1-3 psi self-resealing
Separators:	Microporous separator



Design life

12-years in float service @ 30°C with an approved catalyst

300 cycles @ 80% DOD @ 25°C



Capacity range

12V 40 - 175 Ah

Product Benefits



- Advanced gel design
- Rugged construction
- Added gas venting feature
- Extra wide temperature range
- ideal for rack mounted applications
- low-maintenance
- Maximum operating life
- low self-discharge
- One-way safety valve
- Suitable for deep-cycle service

Product compliance



- IEC 60896-21/22-2004
- BS 6290 part 4
- UL Component Approval
- Eurobat

ETGB



SEC's ETGB Gel Series is engineered to provide absolute reliability under harsh conditions. Designed with a 20-year battery life, the ETGB Gel series is the highest cycling battery on the market.



Product specification

Positive electrode:	Tubular plate design with Lead Calcium Tin alloy
Negative electrode:	Lead Calcium grid alloy
Float voltage:	2.25 - 2.30 vpc ± 1% at 25°C
Max. charge voltage:	2.35 vpc ± 1% at 25°C
Electrolyte:	Thixotropic high purity silica Gel electrolyte
Safety valve:	1-3 psi self-resealing
Separators:	Microporous separator



Design life

20-years in float service @ 30°C with an approved catalyst

1800 cycles @ 80% DOD @ 25°C



Capacity range

12V 60 - 200 Ah

Product Benefits



- Extended lifetime
- High energy rating
- Absolute reliability under harsh conditions
- increased safety
- Maintenance free
- Relatively quick charging

Product compliance



- IEC 60896-21/22-2004
- DIN 40742-1999
- BS 6290 part 4
- UL Component Approval
- Eurobat



FLOODED BATTERY



The Cellyte TRA series is an OPzS flooded tubular range engineered with an excellent float life and premium cycling capabilities. Its relentless reliability makes it the best in its class for high integrity, critical applications.



Product specification

Positive electrode:	Tubular spine grid/low antimony/multi woven polyester sleeve
Negative electrode:	Lead Calcium grid alloy
Float voltage:	2.20 - 2.24 vpc ± 1% at 25°C
Max. charge voltage:	2.40 vpc ± 1% at 25°C
Electrolyte:	Thixotropic high purity silica Gel electrolyte
Separators:	Mirco porous separator
Electrolyte:	Sulphuric acid with specific gravity 1.240



Design life

20-years in float service @ 25°C
2000 cycles @ 80% DOD @ 25°C



Capacity range

2V 100 - 3000 Ah

Product Benefits



- Low self-discharge
- Tolerates sub-zero temperatures
- Latest plate formation technology
- Accepts high charge rate
- Requires no equalization
- Explosion proof / Increased safety
- Long life deep cycle capability

Product compliance



DIN 40736-1992
Eurobat



SEC

ENERGY STORAGE

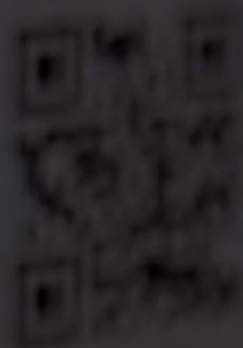
NICKEL CADMIUM BATTERIES

NICKEL CADMIUM

SEC-1.2-KL-200P

POCKET PLATE CELL

NicaCell KP SERIES



BATTERY CHARGING

Rating: 1.2V 200Ah C/5 1.0Vpc @ 25°C
Voltage 1.42 vpc @ 25°C

NICACELL



The Nicacell flooded Nickel Cadmium range was crafted for extreme applications. Engineered with SEC's signature pocket plate design, these NiCad cells are guaranteed to provide optimum performance in extreme temperatures.



Product specification

Positive electrode:	Horizontal pockets of double-perforated steel strips
Negative electrode:	Horizontal pockets of double-perforated steel strips
Float voltage:	1.40 to 1.42 vpc ± 1% at 20°C
Boost charge voltage:	1.55 to 1.70 vpc ± 1% at 20°C
Electrolyte:	Potassium Hydroxide
Vent:	Flip top flame arresting vent
Separators:	Separating grids



Design life

20-years in float service @ 20°C
up to 1,000 cycles @ 80% DOD @ 20°C as per IEC



Capacity range

1.2V low rate	14 - 1700 Ah
1.2V medium rate	20 - 1350 Ah
1.2V high rate	20 - 800 Ah

Product Benefits



- Excellent high power performance
- Extended lifetime at high temperatures
- Absolute reliability under harsh conditions
- Superb power to weight and volume ratio
- Extremely low internal resistance
- Wide operational temperature range
- Requires little to no maintenance

Product compliance



- IEC 62259:2001
- EN 50522-2
- EN 61373

Avantgarde



Built using an advanced pocket plate design, the NiCad Avantgarde is an ultra low maintenance; long lasting and hard working battery that performs in a wide temperature range.



Product specification

Positive electrode:	Horizontal pockets of double-perforated steel strips
Negative electrode:	Horizontal pockets of double-perforated steel strips
Float voltage:	1.42 vpc ± 1% at 20°C
Max. charge voltage:	1.45 vpc ± 1% at 20°C
Electrolyte:	Potassium Hydroxide
Vent:	Flip top flame arresting vent
Separators:	Fibre mat separator



Design life

20-years in float service @ 20°C
up to 1,000 cycles @ 80% DOD @ 20°C as per IEC



Capacity range

1.2V low rate	14 - 1600 Ah
1.2V medium rate	20 - 1250 Ah

Product Benefits



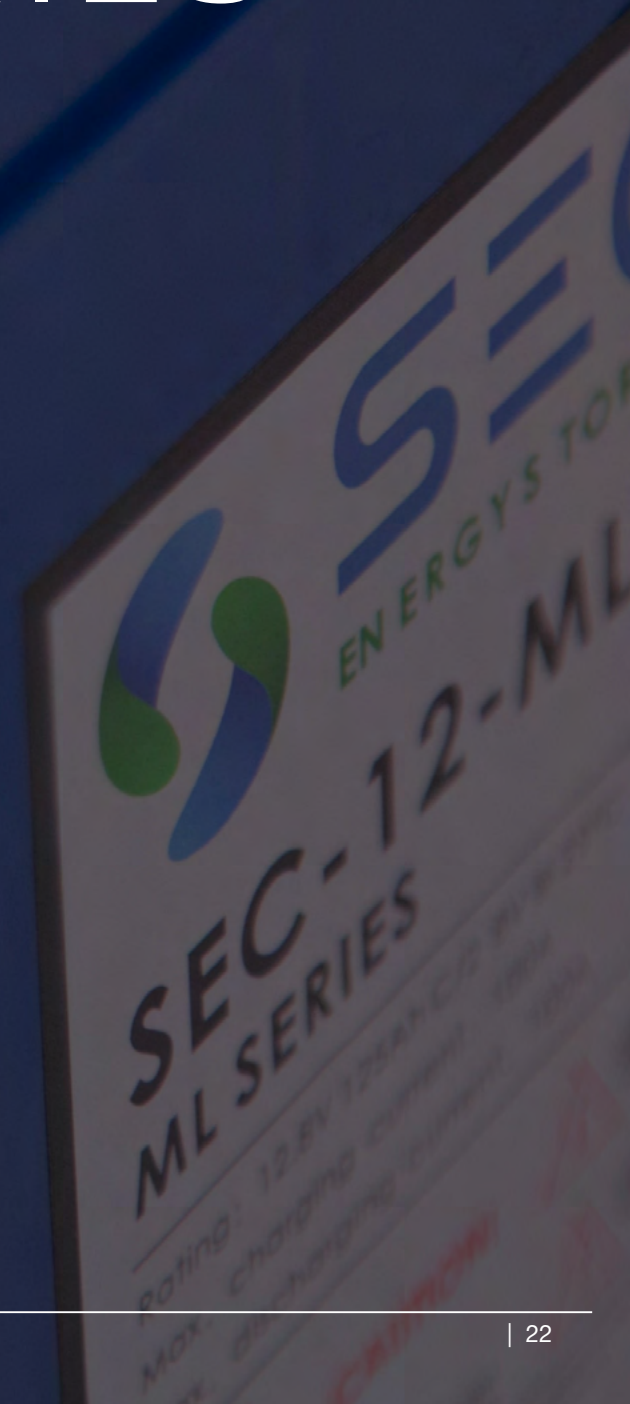
- Excellent high-power rating
- Absolute reliability under harsh conditions
- Suited to vibrational and high temperature environments
- Low preventative maintenance
- No risk of thermal runaway effect
- Low internal resistance
- No ice formation at temperatures below 0°C
- Insensitive to deep discharge and misuse

Product compliance



- IEC 62259:2001
- EN 50522-2
- EN 61373

LITHIUM ION BATTERIES



ML



The Microlyte ML is renowned for its power density, light compact design and ability to withstand extreme temperatures. It's ideal for those looking for a premium, deep-cycle performer.



Product specification

Positive electrode:	Nano-LiFePO ₄ on Aluminum foil
Negative electrode:	Nano-Carbon on Copper foil
Max. Charge current:	0.5C for less than 180min or 0.8C for less than 120min at 25°C
Max. charge voltage:	14.6V ± 1% at 25°C
Electrolyte:	Lithium electrolyte salt LiPF6 with EC:DMC:EMC solvent
Safety valve:	0.8 MPa opening pressure
Separators:	PE film

Product Benefits



- Prismatic cell design
- Energy dense
- Light and compact
- Excels in a wide temperature range
- Extremely low internal resistance
- Absolute reliability under harsh conditions



Design life

10-years in float service @ 25°C

>2000 cycles for continuous 0.5C@
80% DOD @ 25°C



Capacity range

12V 24 - 200Ah

Product compliance



IEC	62133-2012
UL	1642
UN	38.3

RML



The Microlyte RML is a powerful Lithium battery purpose built for Telecom operations. Designed with Nano LiFePO₄ cathode materials, the RML is extremely stable, compact and robust.



Product specification

Positive electrode:	Nano-LiFePO ₄ on Aluminum foil
Negative electrode:	Nano-Carbon on Copper foil
Max. Charge current:	0.5C for less than 180min or 0.8C for less than 120min at 25°C
Max. charge voltage:	58.4V ± 1% at 25°C
Electrolyte:	Lithium electrolyte salt LiPF6 with EC:DMC:EMC solvent
Safety valve:	0.8 MPa opening pressure
Separators:	PE film

Product Benefits



- Super compact
- Excellent stability
- Quick charging
- High consistency
- Prismatic cell design
- Absolute reliability under harsh conditions



Design life

10-years in float service @ 25°C

>2000 cycles for continuous 0.5C@
80% DOD @ 25°C



Capacity range

48V 50, 75, 100 Ah

Product compliance



IEC	62133-2012
UL	1642
UN	38.3



SOLAR PANELS

Monocell Solar



As SEC's premium solar module the Monocell has greater aesthetic appeal. Maximum durability in extreme weather combined with effective performance in low light conditions make the Monocell the best solar module in its class.



Product specification

Max. power output:	265 - 280 W
Power tolerance:	0/+5W
Module efficiency:	16.3% - 17.2%
Module operating temperature:	-40 - 85 °C
Maximum system voltage:	1000V DC (IEC)



Product compliance

IEC 61215	IEC 61701	DIN EN 60068-2-68	ISO 14001:2004
IEC 61730	IEC 62716	ISO 9001:2015	ISO 17025:2005

Product Benefits



- Extra high module conversion efficiency
- Positive power output tolerance
- High tolerance to extreme weather condition
- Waterproof junction box as standard
- High PID resistance
- Innovative design with four bus bars
- Extended warranty based on nominal power

Polycell Solar



The Polycell series combines innovative design with an excellent price to performance ratio. With a high rate of module conversion and a tolerance to extreme weather, it's suited to residential, commercial and utility applications.



Product specification

Max. power output:	260 - 320 W
Power tolerance:	0/+5W
Module efficiency:	16.0% - 16.5%
Module operating temperature:	-40 - 85 °C
Maximum system voltage:	1000V DC (IEC)



Product compliance

IEC 61215	IEC 61701	DIN EN 60068-2-68	ISO 14001:2004
IEC 61730	IEC 62716	ISO 9001:2015	ISO 17025:2005

Product Benefits



- High module conversion efficiency
- Positive power output tolerance
- Tolerance to extreme weather conditions
- Waterproof junction box as standard
- Innovative design with four bus bars
- Extended warranty based on nominal power

Join the SEC Partner Grid programme for increased profits

The energy storage market is booming. From 2012 to 2016, the market has tripled from 6 billion to 18 billion US dollars, driven in large part by renewable energy needs. With more than half of the world's energy supply destined to come from renewable energy sources in the near future, continued rapid growth is a certainty. The opportunities are immense.

Let us help you expand your share of this expanding market and maximise your profits with the SEC Partner Grid Programme. We provide our partners with quality leads generated by our global marketing efforts.

Partners also receive free technical and sales marketing training, discounts, software, rewards for developing new sources of repeat business, and even subsidies for marketing efforts.



Benefits

Lead generation

Technical training

Product discounts

Market growth incentives

Sales and marketing training

Partner performance awards

Customer recruitment rewards

On demand technical and sales support

Online tools for easy direct access to SEC



Contact us today to learn more about how you can grow your profits in the booming market for energy storage with the SEC Partner Grid Programme.



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ENERGY STORAGE