

# AXESS<sup>®</sup>

P O W E R

MADE  
IN ITALY



## SYSTEM WORKS UNINTERRUPTED SMF/VRLA BATTERY



QUICK  
RECHARGE



FLEXIBLE  
ORIENTATION



EXCELLENT CYCLE  
PERFORMANCE



MAINTENANCE  
FREE



HIGH-END  
APPLICATION



[www.axesspower.com](http://www.axesspower.com)

# AXESS POWER S.r.l

## ABOUT US

Axess Power is a prominent player in the battery industry, boasting more than a decade of expertise. Our primary focus revolves around designing, manufacturing and distributing cutting-edge battery solutions. Our commitment to ongoing engineering enhancements enables us to deliver products with enhanced value and top-tier performance.

Backed by a proficient management team and a dedicated R&D division, our company has secured various certifications, including IEC, UL, EAC, CE, ISO9001 for quality management, ISO14001 for environmental management and ISO18001 for health & safety management. These certifications reflect our dedication to meeting international standards, ensuring our customers of the safety and reliability of our products and also environmentally friendly.



## TECHNICAL FEATURES



### Maintenance Free

No topping up is required



### Enhanced Performance

- Computer aided grid design for high power density
- Low self-discharge and long design life
- Lead calcium grid for extended life
- Specially designed vent valves (VRLA)



### Ready-to-use

Supplied in factory charged condition



### State-of-the-art technology

- Absorbent Glass Mat (AGM) technology
- Acrylonitrile Butadiene Styrene (ABS) container
- Gas combination technology



### Eco-friendly

- No emission of corrosive fumes or gases under normal operating conditions.
- Cadmium free



### Easy handling & No intallation constraints

Compact, easily transportable and can be used in any orientation without leakage or spillage of electrolyte.



### Saving in floor space

Compact size to fit in the racks and modules.



### User friendly

- Front access design
- Easy Termination
- Can be used in any orientation



### Characteristics of battery at 25°C

- Low self-discharge rate:  $\leq 2\%$ /month (25°C)
- Long design life: floating life is 10 years (25°C)
- High sealed reaction efficiency:  $\geq 98\%$



### Design Features

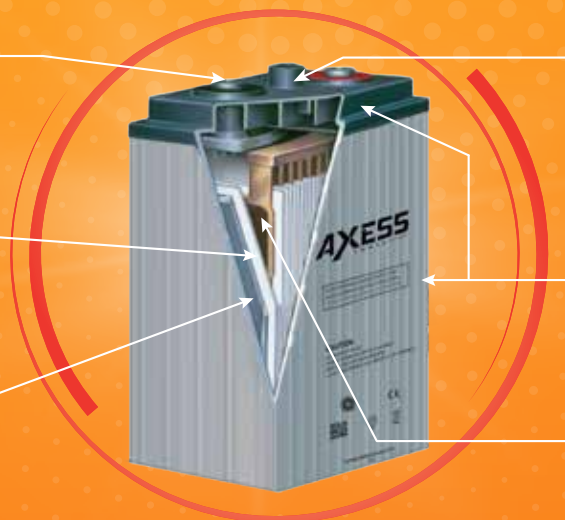
- Operation at a low internal pressure
- Positive and negative plates in lead-calcium-tin alloy
- Superior energy density
- Container available in flame retardant\* (UL 94-V0)

## CONSTRUCTION

**Terminal**  
(Specially designed for sustained high current damages)

**Separator**  
(Double layer, high density, absorptive glass mat nonwoven with excellent porosity)

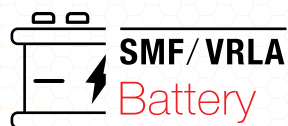
**Negative Plate**  
(Lead calcium tin alloy grid providing low corrosion & maintenance free characteristics)



**Flame Arresting Vent Plug**  
housing the safety valve  
(Explosion-proof, self resealing and pressure regulating)

**Container & Lid made of high grade**  
Acrylonitrile Butadiene Styrene (ABS)

**Positive Plate**  
(Lead calcium tin alloy grid for low corrosion & low self discharge rates)



## TECHNICAL INFORMATION

### Advanced Industrial Battery

AXESS <sup>®</sup> MODEL NUMBER	V	Ah							KG Approx
AP12-3.3	12	3.3	T1/T2	a: 134 b: 67 c: 61 t: 67					1.20
AP12-5	12	5	T1/T2	a: 90 b: 70 c: 101 t: 107					1.65
AP12-7	12	7	T1/T2	a: 151 b: 65 c: 94 t: 100					2.10
AP12-9	12	9	T1/T2	a: 151 b: 65 c: 94 t: 100					2.60
AP12-12	12	12	T1/T2	a: 151 b: 98 c: 95 t: 101					3.40
AP12-17	12	17	T3/T12	a: 181 b: 77 c: 167 t: 167					5.00
AP12-18	12	18	T3/T12	a: 181 b: 77 c: 167 t: 167					5.30
AP12-26	12	26	T4/T12	a: 166 b: 175 c: 125 t: 125					7.90
AP12-33	12	33	T14/T6	a: 195 b: 130 c: 155 t: 167					10.00
AP12-42	12	42	T14	a: 197 b: 165 c: 170 t: 170					13.50
AP12-55	12	55	T5/T14	a: 230 b: 138 c: 211 t: 215					17.30
AP12-65	12	65	T5/T14	a: 350 b: 166 c: 179 t: 179					20.40
AP12-75	12	75	T14	a: 260 b: 168 c: 211 t: 215					23.50
AP12-90	12	90	T14	a: 306 b: 169 c: 211 t: 215					27.00
AP12-100	12	100	T16	a: 330 b: 171 c: 214 t: 220					29.50
AP12-120	12	120	T16	a: 409 b: 176 c: 225 t: 225					34.80
AP12-150	12	150	T16	a: 485 b: 172 c: 240 t: 240					41.80
AP12-180	12	180	T16	a: 530 b: 207 c: 214 t: 218					54.00
AP12-200	12	200	T16/T18	a: 522 b: 238 c: 218 t: 222					59.50



## APPLICATIONS



UPS System



Central Battery System



Fire Alarm & Security System



PAVA & PABX System



ELV System



CCTV & Networking



Elevators & Escalators



Medical Equipment



Telecommunication System



Electric Scooter



Power Plants & substations



Railway Signalling



Electrical Vehicles

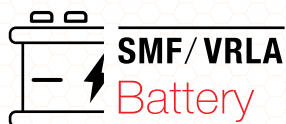


Instrumentation & Controls





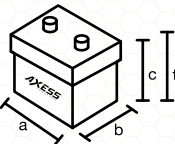

Geophysical Equipment

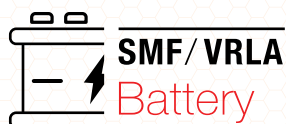




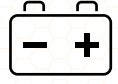

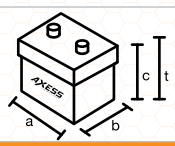

## TECHNICAL INFORMATION

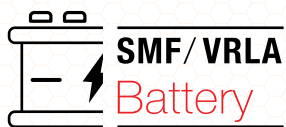
### Advanced Flame Retardant Battery

AXESS MODEL NUMBER	 V	Ah			 Approx
AP12-5 FR	12	5	T1/T2	a: 90 b: 70 c: 101 t: 107	1.65
AP12-7 FR	12	7	T1/T2	a: 151 b: 65 c: 94 t: 100	2.10
AP12-9 FR	12	9	T1/T2	a: 151 b: 65 c: 94 t: 100	2.60
AP12-12 FR	12	12	T1/T2	a: 151 b: 98 c: 95 t: 101	3.40
AP12-17 FR	12	17	T3/T12	a: 181 b: 77 c: 167 t: 167	5.00
AP12-18 FR	12	18	T3/T12	a: 181 b: 77 c: 167 t: 167	5.30
AP12-26 FR	12	26	T4/T12	a: 166 b: 175 c: 125 t: 125	7.90
AP12-33 FR	12	33	T14/T6	a: 195 b: 130 c: 155 t: 167	10.00
AP12-42 FR	12	42	T14	a: 197 b: 165 c: 170 t: 170	13.50
AP12-55 FR	12	55	T5/T14	a: 230 b: 138 c: 211 t: 215	17.30
AP12-65 FR	12	65	T5/T14	a: 350 b: 166 c: 179 t: 179	20.40
AP12-75 FR	12	75	T14	a: 260 b: 168 c: 211 t: 215	23.50
AP12-90 FR	12	90	T14	a: 306 b: 169 c: 211 t: 215	27.00
AP12-100 FR	12	100	T16	a: 330 b: 171 c: 214 t: 220	29.50
AP12-120 FR	12	120	T16	a: 409 b: 176 c: 225 t: 225	34.80
AP12-150 FR	12	150	T16	a: 485 b: 172 c: 240 t: 240	41.80
AP12-200 FR	12	200	T16/T18	a: 522 b: 238 c: 218 t: 222	59.50





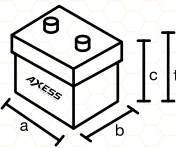

## Advanced 6 Volt Battery

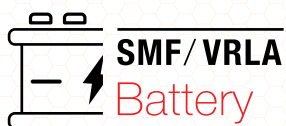
AXESS MODEL NUMBER	 V	Ah			 Approx
AP6-4.5	6	4.5	T1	a: 70 b: 48 c: 101 t: 107	0.76
AP6-7	6	7	T1/T2	a: 151 b: 34 c: 94 t: 100	1.10
AP6-12	6	12	T1/T2	a: 151 b: 50 c: 94 t: 100	1.70
AP6-100	6	100	T14	a: 194 b: 170 c: 205 t: 210	14.80
AP6-150	6	150	T16	a: 260 b: 180 c: 245 t: 250	24.00
AP6-180	6	180	T16	a: 306 b: 169 c: 220 t: 225	27.50
AP6-200	6	200	T16	a: 322 b: 178 c: 227 t: 230	29.00



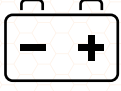

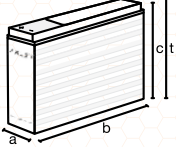

## TECHNICAL INFORMATION

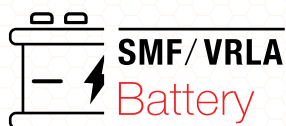
### Advanced 2 Volt Battery

AXESS <sup>®</sup> MODEL NUMBER	 V	Ah			 KG Approx
AP2-100	2	100	T16	a: 171 b: 72 c: 205 t: 210	5.30
AP2-150	2	150	T18	a: 171 b: 102 c: 206 t: 221	8.00
AP2-200	2	200	T20	a: 171 b: 111 c: 330 t: 364	12.50
AP2-300	2	300	T20	a: 171 b: 151 c: 330 t: 364	18.00
AP2-400	2	400	T20	a: 210 b: 176 c: 330 t: 367	25.50
AP2-500	2	500	T20	a: 241 b: 171 c: 330 t: 367	30.00
AP2-600	2	600	T20	a: 302 b: 175 c: 330 t: 367	36.50
AP2-800	2	800	T20	a: 410 b: 175 c: 330 t: 367	50.50
AP2-1000	2	1000	T20	a: 475 b: 175 c: 330 t: 367	60.50
AP2-1500	2	1500	T20	a: 400 b: 350 c: 345 t: 382	93.00
AP2-2000	2	2000	T20	a: 490 b: 350 c: 345 t: 382	124.00
AP2-2500	2	2500	T20	a: 680 b: 350 c: 345 t: 382	160.00
AP2-3000	2	3000	T20	a: 710 b: 350 c: 345 t: 382	180.00



## Advanced Front Terminal Battery

AXESS <sup>®</sup> MODEL NUMBER	 V	Ah			 KG Approx
APFT12-50	12	50	T14	a: 277 b: 106 c: 221 t: 221	16.00
APFT12-75	12	75	T14	a: 562 b: 114 c: 189 t: 189	24.50
APFT12-100	12	100	T16	a: 395 b: 110 c: 286 t: 286	32.80
APFT12-105	12	105	T16	a: 506 b: 110 c: 224 t: 239	32.00
APFT12-125	12	125	T18	a: 550 b: 105 c: 315 t: 315	42.00
APFT12-150	12	150	T16	a: 551 b: 110 c: 287 t: 287	47.50
APFT12-155	12	155	T18	a: 546 b: 125 c: 315 t: 315	50.00
APFT12-180	12	180	T18	a: 546 b: 125 c: 315 t: 315	55.00
APFT12-200	12	200	T18	a: 546 b: 125 c: 317 t: 323	60.50



## TECHNICAL INFORMATION

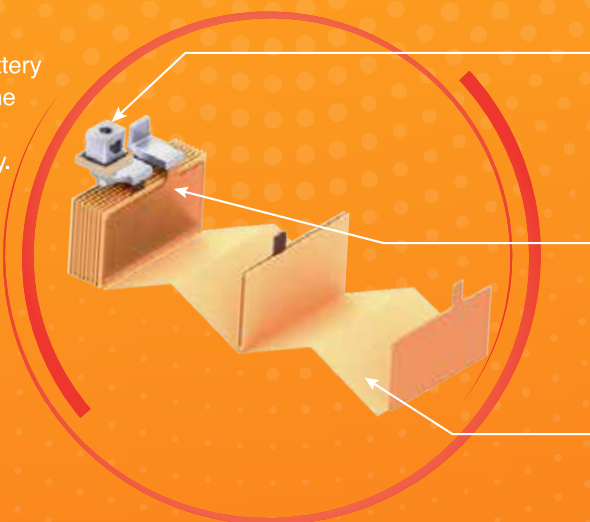
### Advanced GEL Battery

AXESS <sup>®</sup> MODEL NUMBER	V	Ah						KG Approx
APG12-17	12	17	T3/T12	a: 181	b: 77	c: 167	t: 167	5.50
APG12-20	12	20	T3/T12	a: 181	b: 77	c: 167	t: 167	5.80
APG12-26	12	26	T4/T12	a: 166	b: 175	c: 125	t: 125	8.80
APG12-33	12	33	T14	a: 195	b: 130	c: 155	t: 167	11.00
APG12-40	12	40	T14	a: 197	b: 165	c: 170	t: 170	13.50
APG12-50	12	50	T14	a: 230	b: 138	c: 211	t: 215	17.30
APG12-65	12	65	T14	a: 350	b: 166	c: 179	t: 179	21.00
APG12-75	12	75	T14	a: 260	b: 168	c: 211	t: 215	24.50
APG12-90	12	90	T14	a: 306	b: 169	c: 211	t: 215	28.50
APG12-100	12	100	T16	a: 330	b: 171	c: 214	t: 220	30.50
APG12-120	12	120	T16	a: 409	b: 176	c: 225	t: 225	36.00
APG12-134	12	134	T16	a: 342	b: 172	c: 280	t: 285	44.00
APG12-150	12	150	T16	a: 485	b: 172	c: 240	t: 240	44.50
APG12-200	12	200	T16	a: 522	b: 238	c: 218	t: 222	62.50
APG12-250	12	250	T16	a: 521	b: 269	c: 220	t: 224	75.50

## KEY HIGHLIGHTS

VRLA GEL battery is a type of lead acid battery designed for energy storage. It combines the benefits of a Valve Regulated Lead Acid (VRLA) battery with gel electrolyte technology.

In a Gel battery, the liquid acid electrolyte is replaced with a gel formed by mixing pyrogenic silica with diluted sulfuric acid. This gel is thixotropic, changing from liquid to solid, and it stands between the positive and negative plates inside the battery. This design eliminates the need for a liquid electrolyte, making Gel batteries safer and maintenance free.



### Terminal

Tinned copper alloy for good corrosion resistance and electrical conductivity

### Plate

Plates that are designed well tend to have low self-discharge rates to extended periods when not in use.

### Absorbent Glass Mat

AGM technology enables faster charging of batteries.





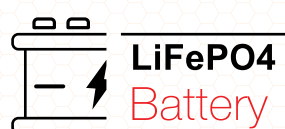
\* Standard / Smart type available

## LITHIUM-ION BATTERY

High Consistency & Long Service Life Batteries for Next Generation

### Applications

Telecommunications Base Stations  
Solar & Wind Energy Storage  
Electric Power Systems  
Data Centers & UPS



## TECHNICAL INFORMATION

### Advanced Lithium-ion Battery

AXESS MODEL NUMBER	V	Ah						KG Approx
				a	b	c	t	
APLFP12-50	12	50	T14	a: 197	b: 165	c: 170	t: 170	6.30
APLFP12-100	12	100	T16	a: 330	b: 172	c: 215	t: 220	12.50
APLFP12-150	12	150	T16	a: 330	b: 172	c: 215	t: 220	16.90
APLFP12-200	12	200	T16	a: 522	b: 240	c: 218	t: 224	21.50
APLFP12-250	12	250	T16	a: 522	b: 240	c: 218	t: 224	28.00
APLFP12-300	12	300	T16	a: 522	b: 240	c: 218	t: 224	31.50
APLFP12-400	12	400	T16	a: 522	b: 240	c: 218	t: 224	37.80
APLFP24-50	24	50	M8	a: 442	b: 480	c: 178	t: 178	19.50
APLFP24-100	24	100	M8	a: 442	b: 480	c: 178	t: 178	26.90
APLFP24-150	24	150	M8	a: 442	b: 480	c: 222	t: 222	35.20
APLFP24-200	24	200	M8	a: 442	b: 480	c: 222	t: 222	46.00
APLFP24-300	24	300	M10	a: 490	b: 480	c: 311	t: 311	68.20
APLFP24-400	24	400	M10	a: 490	b: 480	c: 311	t: 311	85.00
APLFP48-50	48	50	M10	a: 480	b: 470	c: 178	t: 178	28.70
APLFP48-100	48	100	M10	a: 442	b: 480	c: 222	t: 222	44.00
APLFP48-150	48	150	M8	a: 442	b: 480	c: 311	t: 311	70.50
APLFP48-200	48	200	M8	a: 480	b: 480	c: 311	t: 311	77.00
APLFP48-250	48	250	M8	a: 480	b: 650	c: 311	t: 311	135.00
APLFP48-300	48	300	M8	a: 482	b: 690	c: 311	t: 311	125.50

# AXESS POWER

is the key to unlocking  
a world of limitless  
possibilities

Innovation is the lifeblood of AXESS Battery Manufacturing, infusing life into every aspect of our process. Our dedicated research and development teams are constantly pushing boundaries to create batteries that redefine what's possible. We are the driving force behind the evolution of energy storage, enabling the technologies of tomorrow.



## Corporate Headquarters



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