



Features and Benefits

- Capacity range 187 - 935 Ah at the 8 hour rate to 1.75 Vpc @ 77°F (25°C)
- 100% initial capacity
- Five multi-cell 4v units (187, 234, 281, 354 and 418) reduces footprint
- Individual terminals to monitor individual cell performance
- Plated copper terminals with dual hole design
- Thick grids provide excellent long duration discharge performance and long life
- 20 year life expectancy in float service at 77°F (25°C) ambient temperature

Battery Range Summary

PowerSafe[®] ESG batteries are engineered with proprietary material and design features that deliver robust performance and reliable service life. This makes the ESG battery ideal for challenging load profiles and service conditions. The five 4 volt (187 - 418 Ah) multi-cell unit construction helps to minimize floor space. All PowerSafe ESG batteries have individual posts for each cell to help ease and simplify the integration of battery monitoring and test equipment used in routine maintenance and inspections.

PowerSafe ESG series batteries employ a Slide-Lock[™] post seal that allows for natural plate growth over time for maximum reliability and reduced maintenance. The innovative tongue-and-groove jar-to-cover seal provides a robust airtight seal.

Construction

- 0.28" thick positive plates provide excellent long discharge rates and long life
- Separator – microporous phenolic resin with glass fiber retainers
- Standard Styrene Acrylonitrile (SAN) jar with flame retardant UL94 V-0 PVC cover; PC flame retardant jar and cover optional
- Electrolyte – dilute sulfuric acid with specific gravity of 1.215
- Plated copper terminals with dual hole design
- Slide-Lock™ post seal design
- Flame arrestors – included for increased operational safety

Installation and Operation

- Tin plated copper inter-cell connectors (standard); lead plated optional
- Dual posts for high current carrying capability (ESG-19 and above)
- Excellent one minute rate, long duration discharge and complex duty cycle capability for switchgear applications
- 20 year life expectancy in float service at 77°F (25°C) ambient temperature
- Post design features low resistance copper inserts for high rate performance
- Operating temperature: 32°F (0°C) to 104°F (40°C)
Recommended temperature: 68°F (20°C) to 86°F (30°C)

Standards

- The management systems governing the manufacture of this product are ISO 9001:2015 and ISO 14001:2015 certified
- Optional testing in accordance to IEEE 450 or customer duty cycle available
- UL (1989) recognized component, File no. MH15740
Note: Flame Arrestor Vent must be installed.

General Specifications

Battery Type*	Nominal Ah Capacity**	Cells per Jar	Nominal Dimensions						Electrolyte (1.215 S.G.)					
			Length†		Width		Height***		Unpacked Weight		Weight (per jar)		Volume (per jar)	
			in	mm	in	mm	in	mm	lbs	kg	lbs	kg	gal	L
2ESG-05	187	2	6.6	168	11.1	282	18.6	472	87	39	26.7	12.1	2.8	10.5
2ESG-07	234	2	6.6	168	11.1	282	18.6	472	107	49	24.3	11.0	2.5	9.5
2ESG-09	281	2	6.6	168	11.1	282	18.6	472	127	58	22.3	10.1	2.3	8.8
2ESG-11	354	2	9.2	234	11.1	282	18.6	472	156	71	27.3	12.4	2.8	10.7
2ESG-13	418	2	9.2	234	11.1	282	18.6	472	177	80	26.4	12.0	2.7	10.4
ESG-15	501	1	6.6	168	11.1	282	18.7	475	117	53	25.6	11.6	2.7	10.0
ESG-17	580	1	6.6	168	11.1	282	18.7	475	127	58	24.9	11.3	2.6	9.8
ESG-19	662	1	8.1	206	11.1	282	18.7	475	152	69	32.4	14.7	3.4	12.7
ESG-21	698	1	8.1	206	11.1	282	18.7	475	162	73	31.7	14.4	3.3	12.4
ESG-23	733	1	8.1	206	11.1	282	18.7	475	172	78	31.3	14.2	3.2	12.3
ESG-25	884	1	10.1	257	11.1	282	18.7	475	195	88	41.0	18.6	4.3	16.1
ESG-27	909	1	10.1	257	11.1	282	18.7	475	205	93	40.3	18.3	4.2	15.8
ESG-29	935	1	10.1	257	11.1	282	18.7	475	215	98	39.8	18.1	4.1	15.6

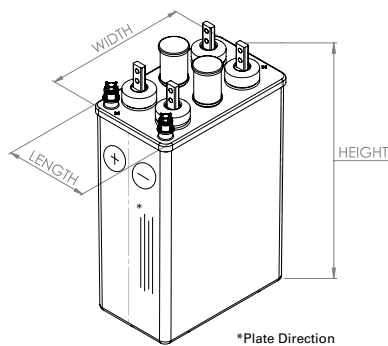
* Prefix number indicates cells per jar. Suffix number indicates total plates per cell

** Nominal Ampere hour capacity at the 8 hour rate to 1.75 volts per cell @ 77°F (25°C)

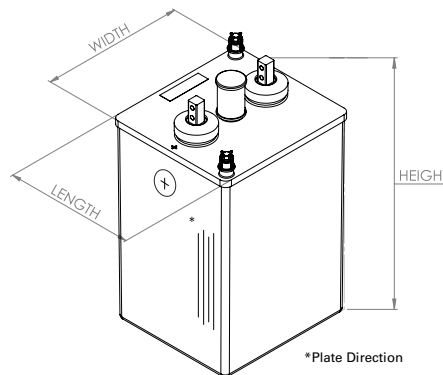
*** Total battery height including terminal plate is 23.0 in (584 mm)

† 0.25 in must be added between units for spacing purposes when calculating total battery length

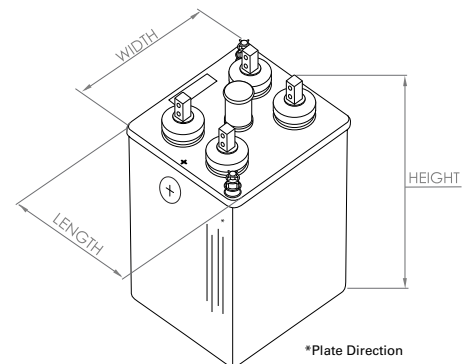
Outline Drawings



2ESG-05 to 2ESG-13



ESG-15 to ESG-17



ESG-19 to ESG-29



EnerSys World Headquarters
2366 Bernville Road
Reading, PA 19605, USA
Tel: +1-610-208-1991 /
+1-800-538-3627

EnerSys EMEA
EH Europe GmbH
Baarerstrasse 18
6300 Zug
Switzerland

EnerSys Asia
152 Beach Road
Gateway East Building #11-03
Singapore 189721
Tel: +65 6508 1780