

# FUKUDA

## ES-SERIES BATTERIES

Sealed Lead Acid Battery • Maintenance Free  
Rechargeable • Valve Regulated (AGM)



*Customized to your needs, FUKUDA's technology surpasses competitors in durability and convenience. Tap the energy*

# TECHNICAL SPECIFICATIONS OF ES SERIES BATTERIES

Battery Type	Nominal Voltage (V)	Rated Capacity					Maximum Charging Current (A)	Charging Voltage		Internal Resistance Approx. (mΩ)	Dimensions (mm)			Total Height	Weight (KG)	Energy Density (wh/l)	Energy Density (wh/kg)	Terminal Type
		20Hr 1.75v/cell	10Hr 1.75v/cell	5Hr 1.70v/cell	3Hr 1.60v/cell	1Hr 1.60v/cell		Standby Use	Cycle Use		Length	Width	Height					
ES 1.3-6	6	1.3	1.1	1.0	0.9	0.7	0.3			60.0	97.0	25.0	50.5	55.0	0.3	59	24.0	
ES 4.5-6	6	4.5	3.7	3.4	3.1	2.4	1.0			20.0	70.0	47.0	98.0	101.0	0.9	74	28.0	
ES 5-6	6	5.0	3.8	3.5	3.2	2.5	1.0	6.75 to	7.2 to	20.0	67.0	67.0	97.0	105.0	0.85	74	28.0	
ES 7.5-6	6	7.5	5.6	5.1	4.6	3.6	1.5	6.9V@	7.5V@	15.0	151.0	34.0	94.0	97.5	1.3	75	28.0	
ES 9.0-6S	6	9.0	7.0	5.6	5.1	4.6	2.0	20°C	20°C	15.0	99.0	56.0	118.0	120.0	1.8	75	28.0	
ES 12-6	6	12.0	9.3	8.5	7.7	6.0	2.5			7.0	151.0	50.0	94.0	97.5	2.0	85	30.0	
ES 20-6	6	20.0	18.7	17.3	15.4	13.8	4.5			11.0	158.0	83.0	125.0	125.0	3.4	94	35.0	
ES 36-6	6	36.0	28.9	26.5	24.1	19.0	7.5			9.0	159.0	85.0	165.0	180.0	6.24	84	31.0	
ES 0.8-12	12	0.8	0.6	0.5	0.4	0.2	0.3			120.0	96.0	25.0	61.0	66.0	0.4	62	12.5	
ES 1.3-12	12	1.3	1.1	1.0	0.9	0.7	0.3			120.0	97.0	47.5	50.5	55.0	0.6	62	25.0	Faston
ES 2.3-12	12	2.3	1.8	1.6	1.5	1.1	0.5			60.0	178.0	34.0	60.0	64.0	0.8	63	27.0	ES187
ES 2.9-12	12	2.9	2.7	2.5	2.2	1.7	0.7			50.0	79.0	55.5	98.5	102.0	1.1	81	29.0	Series
ES 3.3-12	12	3.3	3.0	2.7	2.4	1.9	0.8			31.0	134.0	67.0	60.0	63.5	1.4	73	27.6	
ES 4-12D	12	4.0	3.7	3.4	3.1	2.4	1.0			40.0	195.0	47.0	70.0	74.0	1.6	75	30.0	
ES 5.0-12	12	5.0	3.7	3.4	3.1	2.4	1.0			40.0	90.0	70.0	102.0	105.5	1.7	75	28.0	
HR1224W	12	5.0	3.7	3.4	3.1	2.4	1.0			40.0	151.0	51.0	94.0	105.5	1.7	75	28.0	
ES 7.2-12	12	7.2	6.5	0.6	5.4	4.2	1.7			30.0	151.0	65.0	94.0	97.5	2.5	91	32.0	
ES 9.0-12	12	9.0	7.2	6.5	6.0	5.4	2.0			31.0	151.0	65.0	94.0	97.5	2.7	92	33.0	
ES 12-12	12	12.0	11.2	10.2	9.2	7.8	3.0			15.0	151.0	98.0	94.0	97.5	4.0	104	36.0	250.0
ES 18-12	12	18.0	16.7	15.3	13.4	10.8	4.5			11.0	181.0	76.0	167.0	167.0	6.2	94	35.0	
ES 26-12	12	26.0	24.0	22.0	20.5	16.0	5.0	13.5 to	14.4 to	10.5	166.0	175.0	125.0	125.0	8.7	79	33.0	
ES 28-12	12	28.0	22.3	20.4	18.5	14.4	6.0	13.8V	15.0V	10.0	166.0	175.0	125.0	125.0	9.0	81	35.0	
ES 28-12S	12	30.0	28.0	22.3	20.4	18.5	7.0	@20°C	@20°C	9.5	165.0	126.0	174.0	150.0	9.0	86	32.0	
ES 35-12	12	35.0	27.9	25.5	23.1	18.0	7.5			9.0	192.0	132.0	170.0	170.0	10.5	84	31.0	
ES 45-12	12	45.0	37.2	34.0	30.8	24.0	10.0			8.0	197.0	165.0	170.0	170.0	14.0	89	36.0	
ES 65-12	12	65.0	60.0	55.0	50.0	38.0	15.5			8.0	350.0	166.0	174.0	174.0	22.0	91	38.0	Bolt-Nut
ES 70-12	12	70.0	60.5	55.3	50.1	39.0	16.0			5.0	350.0	166.0	174.0	174.0	23.0	77	35.0	
ES 100-12	12	100.0	100.0	92.0	83.0	65.0	25.0			5.0	330.0	170.0	220.0	220.0	31.0	80	30.0	
ES100-12FT	12	100.0	100.0	92.0	83.0	65.0	25.0			3.5	394.0	109.0	285.0	285.0	31.0	80	30.0	
ES 120-12	12	120.0	108.0	100.0	92.0	83.0	30.0			3.0	409.0	177.0	225.0	225.0	38.0	62	30.0	
ES 150-12	12	150.0	150.0	137.0	124.0	97.0	37.0			2.7	484.0	171.0	241.0	203.0	44.0	63	31.0	
ES 150-12FT	12	150.0	150.0	137.0	124.0	97.0	37.0			2.7	550.0	110.0	288.0	288.0	49.7	63	31.0	
ES 200-12	12	200.0	200.0	187.0	173.0	129.0	50.0			2.4	520.0	245.0	203.0	203.0	73.5	81	32.0	
ES 250-12	12	250.0	250.0	233.0	216.0	162.0	60.0			2.4	520.0	269.0	203.3	203.0	78.0	81	32.0	

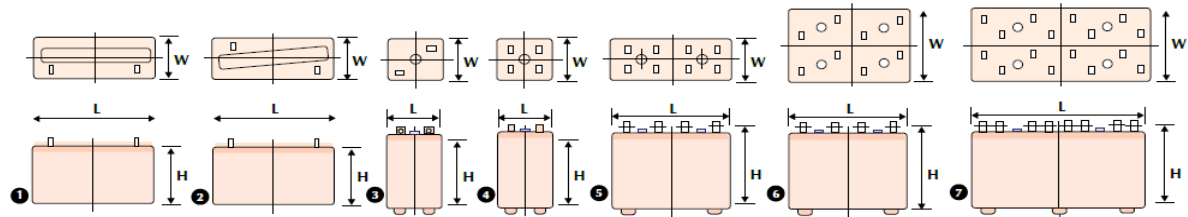
Note: 20°C is approx. 68°F

Please allow for a margin of +/- 3mm

Divide 25.39 for (mm) conversion to (in)

Divide 0.455 for (kg) conversion to (lb)

DC: Deep Cycle; FT: Front Terminal; S: Standing



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# MECTRA

S Y N E R G Y

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 ISO 14001:2015 - E102717  
 ISO 18001:2007 - OSH058