

# FUKUDA

## ES-SERIES BATTERIES

### 2019

Completely Sealed  
Rechargeable

Maintenance Free  
Valve Regulated



Powering the industry's needs for more than 30 years, **FUKUDA** technology surpasses her competition in durability and convenience.

*Tap the energy!*

# TECHNICAL SPECIFICATION OF FUKUDA ES SERIES BATTERIES

Model	Specification	Capacity (AH) @ 25°C, 1.75V/Cell					Max. Charge Current (A)	Approx. Internal Resistance (mΩ)	Dimensions				Weight (KG)	Energy Density (wh/kg)	Terminal Type
		1Hr	3Hr	5Hr	10Hr	20Hr			Length	Width	Height	T. Height			
ES 10-2	2V 10AH	7.80	9.00	10.2	11.5	12.0	1.0	10.0	52.5	50.0	93.0	98.0	0.70	28.6	Faston-Tab
ES 1.3-6	6V 1.3AH	0.78	1.02	1.10	1.20	1.30	0.3	60.0	97.0	25.0	50.5	55.0	0.31	25.0	
ES 3.3-6	6V 3.3AH	1.81	2.48	2.81	3.10	3.30	1.0	22.0	135	35.0	60.0	65.0	0.65	30.5	
ES 4.5-6	6V 4.5AH	2.65	3.40	3.83	4.20	4.50	1.0	20.0	70.0	47.0	101	106	0.85	31.8	
ES 5.0-6	6V 5.0AH	3.00	3.80	4.30	4.80	5.00	1.0	20.0	67.5	67.5	97.5	118	0.90	33.3	
ES 7.5-6	6V 7.5AH	4.10	5.60	6.40	7.20	7.50	1.5	15.0	151	34.0	94.0	98.0	1.30	34.6	
ES 12-6	6V 12AH	7.00	9.10	10.5	11.0	12.0	2.5	7.0	151	50.0	95.0	97.5	2.00	36.0	
ES 20-6	6V 20AH	12.0	14.5	17.0	18.4	20.0	4.5	6.0	158	83.0	125	125	3.20	37.5	
ES 36-6	6V 36AH	19.0	24.1	26.5	28.9	36.0	7.5	9.0	159	85.0	165	180	6.00	36.0	
ES 0.8-12	12V 0.8AH	0.20	0.40	0.50	0.60	0.80	0.3	120.0	96.0	25.0	61.0	66.0	0.40	24.0	Faston-Tab
ES 1.3-12	12V 1.3AH	0.78	1.02	1.10	1.20	1.30	0.3	120.0	97.0	44.0	52.0	56.0	0.61	25.6	
ES 2.0-12	12V 2.0AH	1.10	1.50	1.70	1.90	2.00	0.5	180.0	150	20.0	85.0	89.0	0.70	34.3	
ES 2.3-12	12V 2.3AH	1.25	1.65	1.85	2.00	2.30	0.5	60.0	178	35.0	61.0	65.0	1.00	27.6	
ES 2.8A-12	12V 2.8AH	1.60	2.10	2.40	2.60	2.80	0.7	50.0	103	46.0	70.0	70.0	1.10	30.5	
ES 2.9-12	12V 2.9AH	1.70	2.20	2.50	2.70	2.90	0.7	50.0	79.0	55.5	98.5	102	1.10	31.6	
ES 3.3-12	12V 3.3AH	1.81	2.48	2.80	3.00	3.30	0.8	31.0	135	67.0	61.0	66.0	1.40	28.3	
ES 4-12D	12V 4.0AH	2.40	3.10	3.40	3.70	4.00	1.0	40.0	195	47.0	70.0	74.0	1.60	30.0	
ES 5.0-12	12V 5.0AH	3.00	3.80	4.30	4.80	5.00	1.1	39.0	90.0	70.0	102	105	1.70	35.3	
HR 1224W	12V 5.0AH	3.00	3.80	4.30	4.80	5.00	1.1	39.0	151	51.0	94.0	99.0	1.70	35.3	
ES 7.2-12	12V 7.2AH	4.50	5.70	6.50	7.00	7.20	1.7	30.0	151	65.0	94.0	99.0	2.20	39.3	
ES 9.0-12	12V 9.0AH	5.00	6.80	7.70	8.50	9.00	1.8	29.0	151	65.0	94.0	99.0	2.70	40.0	
ES 12-12	12V 12AH	7.00	9.10	10.5	11.0	12.0	3.0	15.0	151	98.0	98.0	102	4.00	36.0	
ES 18-12	12V 18AH	9.90	13.5	15.3	17.0	18.0	4.5	11.0	181	76.0	165	165	6.20	34.8	Bolt-Nut
ES 20-12	12V 20AH	12.0	15.3	17.5	18.5	20.0	4.8	10.8	181	76.0	165	165	6.50	36.9	
ES 22-12	12V 22AH	12.5	15.8	18.0	19.5	22.0	4.9	10.6	181	76.0	165	165	6.70	39.4	
ES 28-12	12V 28AH	15.5	21.0	24.0	26.0	28.0	6.0	10.0	166	175	125	125	9.00	37.3	
ES 28-12S	12V 28AH	15.5	21.0	24.0	26.0	28.0	6.0	10.0	166	125	175	175	9.00	37.3	
ES 35-12	12V 35AH	18.0	23.1	25.5	27.9	35.0	7.5	9.0	192	132	170	170	10.5	40.0	
ES 45-12	12V 45AH	24.0	30.8	34.0	37.2	45.0	10.0	8.0	197	165	170	170	14.0	38.6	
ES 65-12	12V 65AH	38.0	50.0	55.0	60.0	65.0	15.5	8.0	350	168	179	179	22.0	35.5	
ES 70-12	12V 70AH	39.0	50.5	55.5	60.5	70.0	16.0	7.5	350	168	179	179	23.0	36.5	
ES 100-12	12V 100AH	59.0	78.0	88.0	100	110	25.0	5.0	330	170	220	220	31.0	38.7	
ES 100-12 FT	12V 100AH	59.0	78.0	88.0	100	110	25.0	4.5	394	109	285	285	31.0	38.7	
ES 120-12	12V 120AH	70.0	92.0	105	120	130	30.0	3.0	409	177	225	225	38.0	37.9	
ES 135-12	12V 135AH	75.0	102	115	135	148	32.0	2.9	341	172	282	288	42.0	35.2	
ES 150-12	12V 150AH	87.0	115	130	150	165	37.0	2.7	483	170	241	241	46.0	39.1	
ES 150-12 FT	12V 150AH	87.0	115	130	150	165	37.0	2.7	550	110	288	288	46.0	39.1	
ES 180-12 FT	12V 180AH	90.0	122	140	160	180	39.0	2.5	550	110	288	288	48.0	45.0	
ES 200-12	12V 200AH	115	152	172	200	220	50.0	2.4	522	245	216	216	73.0	32.9	
ES 230-12	12V 230AH	130	180	200	230	250	52.0	2.4	522	245	216	216	74.0	34.9	
ES 250-12	12V 250AH	140	190	215	250	270	55.0	2.4	522	268	220	220	76.0	39.5	

- Dimensions tolerance +/- 3mm. Weight tolerance +/- 0.2kg
- FT: Front Terminal; S: Standing; FR: Flame retardant UL94:V0 available upon request
- Approved for transport by air
- Complies with IEC60896

This catalogue provides outline information only and is not deemed to form part of an offer or contract. Our policy is one of continued improvement and we reserve the right to change details without prior notice.

