

RETAIL POWER



# BATTERY CELLS

# JAPAN & KOREA Cell



Brand		Panasonic	Panasonic	Panasonic	Panasonic	Samsung	Samsung	Samsung	Samsung
Model		UR18650RX	UR18650AA	NCR18650PF	NCR18650B	INR18650-15Q	ICR18650-22F	ICR18650-26H	INR18650-29E
Chemistry		Li-ion	Li-ion	Li-ion	Li-ion	Li-ion	Li-ion	Li-ion	Li-ion
Nominal Voltage		3.6V	3.6V	3.6V	3.6V	3.6V	3.6V	3.7V	3.7V
Minimum Capacity		1950mAh	2150mAh	2750mAh	3250mAh	1450mAh	2100mAh	2550mAh	2750mAh
Typical Capacity		2050mAh	2250mAh	2900mAh	3350mAh	1500mAh	2200mAh	2600mAh	2850mAh
Internal Impedance		≤ 20mΩ	≤ 100mΩ	≤ 35mΩ	≤ 50mΩ	≤ 30mΩ	≤ 100mΩ	≤ 100mΩ	≤ 100mΩ
Charge	Method	CV/CC *	CV/CC *	CV/CC *	CV/CC *	CV/CC *	CV/CC *	CV/CC *	CV/CC *
	Voltage	4.2V	4.2V	4.2V	4.2V	4.2V	4.2V	4.2V	4.2V
	Standard Current	1.36A	1.50A	1.35A	1.62A	0.75A	1.1A	1.3A	1.37A
	Rapid Current	3.9A	2.15A	1.35A	3.4A	4A	2.2A	2.6A	2.75A
Discharge	Cut-off Voltage	2.75V	2.75V	2.5V	2.5V	2.5V	2.75V	2.75V	2.5V
	Continuous Current	20A	5A	10A	4.87A	18A	4.4A	5.2A	8.25A
	Pulse Current (5 sec.)	/	/	18A	/	22A	/	/	/
Dimensions	Diameter	Ø18.5 mm	Ø18.3 mm	Ø18.6mm	Ø18.5 mm	Ø18.15mm	Ø18.4mm	Ø18.4mm	Ø18.4 mm
	Heigh	65.3mm	64.9mm	65.2mm	65.3mm	64.6mm	65mm	65mm	65mm
Approx. Weight		47.5g	42.2g	44.5g	47.5g	43g	44.5g	45g	45g

\* CC/CV =Constant Current & Constant Voltage

\* Maximum discharge current values subject to change. Please refer to their respective specification sheets for the most updated details.

We are the Authorized Assembler of **Panasonic** and **Samsung** on high power consumption battery pack.

## YLE



YLE	YLE	YLE	YLE	YLE	YLE	YLE	YLE	Brand
INR18650D150	ICR18650D210	INR18650A205	INR18650A220	INR18650A250	INR18650A260	INR18650A280	INR18650A310	Model
Li-NMC	Li-Co	Li-NMC	Li-NMC	Li-NMC	Li-NMC	Li-NMC	Li-Co	Chemistry
3.6V	3.7V	3.6V	3.6V	3.6V	3.6V	3.6V	3.8V	Nominal Voltage
1430mAh	2000mAh	2000mAh	2100mAh	2480mAh	2530mAh	2700mAh	2980mAh	Minimum Capacity
1500mAh	2100mAh	2050mAh	2200mAh	2500mAh	2600mAh	2800mAh	3100mAh	Typical Capacity
≤ 20mΩ	≤ 35mΩ	≤ 60mΩ	≤ 65mΩ	≤ 60mΩ	≤ 60mΩ	≤ 60mΩ	≤ 60mΩ	Internal Impedance
CC/CV *	CC/CV *	CC/CV *	CC/CV *	CC/CV *	CC/CV *	CC/CV *	CC/CV *	Method
4.2V	4.2V	4.2V	4.2V	4.2V	4.2V	4.2V	4.35V	Voltage
0.3A	0.42A	0.41A	0.44A	0.5A	0.52A	0.56A	0.62A	Standard Current
1.5A	2.1A	1.44A	1.76A	1.75A	1.82A	1.96A	3.1A	Rapid Current
3.0V	3.0V	3.0V	3.0V	2.75V	2.75V	2.75V	2.75V	Cut-off Voltage
15A	10A	2.05A	4.1A	5A	5.2A	5.6A	5A	Continuous Current
30A	20A	10.25A	6.2A	7.5A	7.8A	8.4A	8A	Pulse Current (5 sec.)
Ø18.3 mm	Ø18.3 mm	Ø18.3 mm	Ø18.3 mm	Ø18.3 mm	Ø18.3 mm	Ø18.3 mm	Ø18.3 mm	Diameter
65.2mm	65.2mm	65.2mm	65.2mm	65.2mm	65.2mm	65.2mm	65.2mm	Height
43g	43g	47g	44g	45g	46g	49g	50g	Approx. Weight

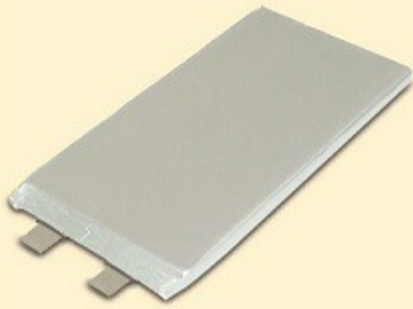
\* CC/CV =Constant Current & Constant Voltage

\* Maximum discharge current values subject to change. Please refer to their respective specification sheets for the most updated details.

Partnered with **YikLik Energy Limited (YLE)** battery cell manufacturer to successfully produce high-quality Li-ion and Li-polymer cells of LiCoO<sub>2</sub>, LiNMC, LiFePO<sub>4</sub> chemistries which are now being used in the making of battery packs for eBike, eMotorcycle, Electric Wheelchair, Electric Golf Cart, Car Starter Battery, UPS System, Lighting, Household Appliance, Remote Control Toys, and many others.

# Li-polymer Battery Cells Series

## YLE



Brand		YLE	YLE	YLE	YLE
Model		INS6570138A500C	INS8570133A700D	INS0970165A900C	INS1170133A1000D
Chemistry		Li-NMC	Li-NMC	Li-NMC	Li-NMC
Nominal Voltage		3.6V	3.6V	3.6V	3.6V
Minimum Capacity		4800mAh	6800mAh	8800mAh	9500mAh
Typical Capacity		5000mAh	7000mAh	9000mAh	10000mAh
Internal Impedance		≤ 15mΩ	≤ 25mΩ	≤ 30mΩ	≤ 10mΩ
Charge	Method	CV/CC *	CV/CC *	CV/CC *	CV/CC *
	Voltage	Max 4.2V	Max 4.2V	Max 4.2V	Max 4.2V
	Standard Current	1A	1.4A	1.8A	2A
	Rapid Current	5A	7A	9A	10A
Discharge	Cut-off Voltage	3.0V	2.5V	3.0V	2.5V
	Continuous Current	15A	35A	27A	50A
	Pulse Current (5 sec.)	50A	70A	90A	100A
Dimensions	Height	6.5 mm	8.5 mm	9 mm	11.3 mm
	Width	73 mm	71 mm	73mm	71 mm
	Length	145 mm	135 mm	175 mm	135 mm
Approx. Weight		50g	160g	210g	215g

\* CC/CV =Constant Current & Constant Voltage

\* Maximum discharge current values subject to change. Please refer to their respective specification sheets for the most updated details.

# Ji-Fe Series Highly Reliable Battery Cells

YLE



YLE	YLE	YLE	YLE	YLE	YLE	YLE	Brand
IFR18650D110	IFR18650D130	IFP335774S900	IFP287194S1000	IFP287194S1300	IFP337194S1200	IFP337194S1500	Model
Li-Fe	Li-Fe	Li-Fe	Li-Fe	Li-Fe	Li-Fe	Li-Fe	Chemistry
3.2V	3.2V	3.2V	3.2V	3.2V	3.2V	3.2V	Nominal Voltage
1000mAh	1200mAh	8500mAh	9500mAh	12000mAh	11000mAh	14000mAh	Minimum Capacity
1100mAh	1300mAh	9000mAh	10000mAh	13000mAh	12000mAh	15000mAh	Typical Capacity
≤ 25mΩ	≤ 50mΩ	≤ 10mΩ	≤ 10mΩ	≤ 10mΩ	≤ 12mΩ	≤ 10mΩ	Internal Impedance
CV/CC *	CV/CC *	CV/CC *	CV/CC *	CV/CC *	CV/CC *	CV/CC *	Method
Max 3.70V	Max 3.70V	Max 3.65V	Max 3.65V	Max 3.65V	Max 3.65V	Max 3.65V	Voltage
0.22A	0.26A	1.6A	2A	2.6A	2.4A	3A	Standard Current
1.1A	1.3A	8A	10A	13A	12A	15A	Rapid Current
2.0V	2.0V	2.0V	2.0V	2.0V	2.0V	2.0V	Cut-off Voltage
16.5A	3.9A	24A	50A*	39A	60A*	45A	Continuous Current
40A	13A	80A	100A	65A	120A	75A	Pulse Current (5 sec.)
/	/	33 mm	28 mm	28 mm	33 mm	33 mm	Height
Ø18.3 mm	Ø18.3 mm	57 mm	71 mm	71 mm	71 mm	71 mm	Width
65.3 mm	65.2mm	74mm	94 mm	94 mm	94 mm	94mm	Length
42g	45g	350g	400g	410g	460g	480g	Approx. Weight

\* CC/CV =Constant Current & Constant Voltage

\* Recommend screw connect method if the constant discharge current is more than 30A

\* Maximum discharge current values subject to change. Please refer to their respective specification sheets for the most updated details.