Jinko Solar (688223.CN)

A leader in TOPCon solar cell, benefiting from the rapid growth of overseas PV module demand China | Solar energy|

A Brief introduction to the company

Jinko Solar(688223.CN) is a worlding-leading and vertically-integrated photovoltaic module company. Founded in 2006, the company has formed an integrated business of silicon ingots, silicon wafers, PV cells, and solar modules. The company's revenue mainly comes from the sales of modules. In the first half of 2022, the company achieved module shipments of 18.92GW, ranking first in the world.

A review of 2022 H1 Results

The company has announced its 2022 semi-annual report. The company achieved an operating income of 33.41 billion yuan (RMB, the same below), up 112.4% YoY, with revenue in Q2 being 18.73 billion yuan, up 138.8% YoY, and up 27.5% QoQ. The net profit attributable to shareholders was 910 million yuan, up 60.1% YoY, with net profit attributable to shareholders after deducting non-recurring gains and losses was 800 million yuan, up 299.2% YoY, with the number in Q2 being 503 million yuan, up 55.5% YoY, and up 57.3% QoQ. The GP margin was 10.25%, down 4.09% YoY, with the margin in Q2 being 11.20%, down 4.29% YoY, and up 2.16% QoQ. The substantial increase in the company's revenue and profit was mainly due to the significant increase in the company's PV product shipments to 18.92GW, a YoY increase of 79%, of which PV module shipments reached 18.21GW, ranking first in the world. In addition, the proportion of the company's sales revenue in the European market increased significantly from 19% to 27%, mainly due to the substantial increase in demand in the European photovoltaic market this year. The company expects Q3 module shipments to be 9-10GW, and 35-40GW for the full year.

Due to the strong PV module demand, PV manufacturers have significantly raised their PV module shipment expectations for 2022-2023

As the Russian-Ukrainian war is reaching a stalemate, European natural gas imports have been slashed, and European electricity prices have risen sharply. In addition, the European Commission launched the RepowerEU plan and the EU Solar Strategy, and plans to install more rooftop PV modules, resulting in a substantial increase in the installed PV capacity in Europe. Mr. Li Zhenguo, the general manager of LONGi Green Energy, pointed out that the demand for photovoltaics has exceeded expectations. The market originally believed that the installed PV capacity in 22/23 was 250/350GW, but now it is likely to be close to 300/400GW. In addition, Trina Solar expects to add about 280-300GW of installed capacity in 22 years and 380-400GW in 23 years, far exceeding the market's original expectations. Therefore, we believe the company continues to benefit from the substantial growth in demand from the photovoltaic industry.

Jinko focuses on developing ultra-efficient N-type TOPCon technologies, ahead of its peers With the PV industry experiencing a transition from P-type PV technology to a more photoelectrically efficient N-type PV technology, the market is now paying attention to the most economical N-type TOPCon PV cell technology (at least in short term). Compared with the N-type HJT battery, the N-type TOPCon cell technology can utilize the existing PERC production line, so the production cost per watt of the cell is lower than that of the HJT battery. The company insists on focusing on developing highly-efficiency TOPCon PV cells, as a result, its TOPCon production capacity has been greatly increased. As early as 2019, the company built a TOPCon battery production line and its mass production efficiency in 2020 reached 24.2%, creating a first-mover advantage. Subsequently, the company built 8GW Hefei and 8GW Haining production lines, with a mass production conversion efficiency of 24.8%. By the end of 2022, its planned production capacity of TOPCON cells will reach 35GW, ranking first in the industry. From a technical point of view, the company's TOPCon technology ranks first in the world. The company's self-developed 182 N-type TOPCon cell



19 Sep 2022

Buy

CMP RMB 17.36 (Closing price as of 14 Sep) Target RMB 21.23 (+22.3%)

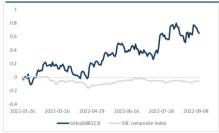
COMPANY DATA

O/S SHARES (MN) :	10,000
MARKET CAP (HKD bn) :	1746
52 - WK HI/LO (HKD):	19.35/8.48

SHARE HOLDING PATTERN, %

JinkoSolar Investment Limited	58.62%





Source: Phillip Securities (HK) Research

KEY FINANCIALS

RMB \$'mn	FY20	FY21	FY22E	FY23E	FY24E
Net Sales	33,659.6	40,569.6	78,804.7	123,037.0	148,837.8
Net Profit	1,041.6	1,141.4	2,459.5	6,067.0	8,398.5
Basic EPS (RMB)	0.10	0.11	0.25	0.61	0.84
P/E ratio, x	166.7	152.1	70.6	28.6	20.7
Dividend Yield,%	0.0%	0.0%	0.1%	0.5%	0.7%

Source: Company reports, Phillip Securities Est.

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has a conversion efficiency of 25.7%, having been certified by the Chinese Academy of Metrology, setting a world record for the highest TOPCon cell conversion efficiency. The company expects that the second phase of the TOPCon production line will produce TOPCon cells with a mass production conversion efficiency of 25% in 2022, continuing to lead the industry in the coming years. Therefore, we expect the company continues to deliver PV modules with the lowest levelized cost of electricity(LCOE, a measure of photovoltaic cost per kilowatt-hour) in the industry, and the market share of the company's PV modules will increase from about 13% in 2021 to 18% in 2024, approaching to a market share of 20-25% rate target.

Jinko is now increasing the production capacity of silicon wafers and cells, reducing the cost of PV modules

PV Module manufacturers' profits have been decreasing due to upstream wafer and cell price increases, so module manufacturers are now deploying a vertical integration strategy, penetrating the silicon wafer and PV cell industries, to ensure stable profits. The company understood that its silicon wafer and battery production capacity is insufficient and is now deploying the integration strategy. As of the end of 2021, the company's wafer/cell/module production capacity is 32.5/24/45GW, revealing that the production capacity of wafers and cells is in shortage and the degree of vertical integration is insufficient. To solve the shortcomings of silicon wafers and cells, the company plans to have a production capacity of 60/55/65GW of silicon wafers/cells/modules by the end of this year. As the company becomes more vertically integrated, we expect the company's gross margin volatility to decrease.

The company has a high proportion of overseas business, and it is expected to benefit from the explosive growth in Europe

The company is committed to expanding its global production, logistics, sales, and service network to meet the needs of customers around the world. As of the second quarter of 2022, the company's products and services cover more than 160 countries. From the perspective of the regional structure of revenue, the company's overseas revenue accounted for 74% in the first half of 2022, of which 27% came from Europe. We expect that overseas markets (especially the European market) will continue to benefit from the rising energy prices and policy support, and the company is expected to benefit greatly from the explosive growth of the foreign PV market due to the high proportion of business in overseas markets.

Company valuation

We believe that the company has the advantages of TOPCon PV cell technology and vertical integration, and the company has greatly benefited from the explosive growth in Europe due to the high proportion of overseas business. We expect that the company's module business will usher in explosive growth and its market share will increase substantially and the company will continue to rank first in PV module shipment. In addition, the degree of integration of the company continues to rise, and we expect the company's earnings stability to increase, which is beneficial to the company's long-term development. We predict that the company's EPS in 22/23 will be $\pm 0.25/0.61$ respectively, up 115%/147% YoY, corresponding to 70.6/28.6x price-earnings ratio (P/E) in 22/23. Since the company's valuation should be much higher than that of peers, we believe that the company's valuation should be much higher than its peers' stock value, giving the company 35 times PE in 2023 and a target price of ± 21.23 , with a "buy" rating. (Current price as of September 14)



INITIATION REPORT

Jinko Solar

Compony	Stock Code	Closing		EPS(CNY))		PE(x)	
Company	SLOCK COUP	Price	2021A	2022E	2023E	2021A	2022E	2023E
LONGi	601012.SH	52.55	1.39	1.90	2.49	37.7	27.7	21.1
YoY				35.9%	31.2%			
Trina Solar	688599.SH	71.56	1.09	1.69	2.97	65.51	42.45	24.11
YoY				54.3%	76.1%			
Ja Solar	002459.SZ	69.54	1.29	1.86	2.84	54.1	37.5	24.5
YoY				44.3%	52.8%			
ZhongHuan	002129.SZ	48.27	1.69	2.10	2.66	28.5	23.0	18.2
YoY				24.2%	26.4%			
Shangji	603185.SH	147.66	6.30	8.09	12.92	23.4	18.3	11.4
YoY				28.3%	59.8%			
Average PE						41.8	29.8	19.9
Average Growth in EPS				37.4%	49.2%			
Jinko Solar	688223.SH	17.36	0.11	0.25	0.61	152.1	70.6	28.6
ҮоҮ				115.5%	146.7%			

Source: Wind, Phillip Securities (HK) Research

Risk factors

1) PV demand falls short of expectations; 2) Technology substitution risks, such as HJT, and perovskite cell development exceed expectations; 3) Raw material cost declines less than expected; 4) Market competition intensifies; 5) Production capacity falls short of expectations; 6) Trade barriers.



Jinko Solar

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INITIATION REPORT

Financial

Consolidated Statement of Profit or Loss						
Dec Y/E, RMB mn	FY19	FY20	FY21	FY22E	FY23E	FY24E
Revenue	29,489.6	33,659.6	40,569.6	78,804.7	123,037.0	148,837.8
COGS	(23,616.4)	(28,629.3)	(35,135.0)	(69,992.6)	(106,967.0)	(127,987.8)
Gross Profit	5,873.2	5,030.2	5,434.6	8,812.1	16,070.0	20,850.1
Other income	59.8	199.8	360.9	442.9	691.5	836.5
Taxes and surcharges	(107.0)	(98.7)	(119.1)	(231.4)	(361.2)	(437.0)
Selling and distribution expenses	(2,129.2)	(895.2)	(890.8)	(1,576.1)	(2,460.7)	(2,827.9)
Administrative expense	(658.5)	(841.5)	(1,133.4)	(1,977.1)	(3,086.9)	(3,734.2)
Research and development expenses	(679.6)	(705.7)	(716.2)	(1,391.3)	(2,172.1)	(2,627.6)
Share of profit of associates and JVs	(18.2)	(30.0)	226.8	107.3	167.5	202.6
Finance costs, net	(361.5)	(940.2)	(1,062.2)	(296.0)	(213.2)	(598.9)
Other Gains/Losses	(405.4)	(537.2)	(740.7)	(1,062.3)	(1,658.5)	(2,006.3)
Profit before tax	1,573.7	1,181.6	1,359.9	2,828.2	6,976.2	9,657.2
Income tax	(177.1)	(139.1)	(218.6)	(368.6)	(909.3)	(1,258.7)
Minorities	15.7	1.0	(0.0)	0.0	0.0	0.0
Net profit	1,380.8	1,041.6	1,141.4	2,459.5	6,067.0	8,398.5
EPS(RMB)-Basic		0.10	0.11	0.25	0.61	0.84
DPS		-	-	0.02	0.09	0.13
Payout ratio	0%	0%	0%	9%	15%	15%
Weighted Shares outstanding(mn)		10.000	10.000	10.000	10.000	10.000

Key Financial Data						
Dec Y/E	FY19	FY20	FY21	FY22E	FY23E	FY24
Valuation Ratio						
P/E ratio, x	125.7	166.7	152.1	70.6	28.6	20.7
Dividend Yield, %	0.0%	0.0%	0.0%	0.1%	0.5%	0.7%
Per share data (RMB)						
EPS	0.14	0.10	0.11	0.25	0.61	0.84
BVPS	0.91	1.25	1.36	2.56	3.07	3.79
DPS	0.00	0.00	0.00	0.02	0.09	0.13
Growth & Margin						
Growth						
Revenue Growth	0.0%	14.1%	20.5%	94.2%	56.1%	21.0%
Gross Profit Growth	0.0%	-14.4%	8.0%	62.1%	82.4%	29.7%
Operating Profit Growth	0.0%	-24.9%	15.1%	108.0%	146.7%	38.4%
Net Profit Growth	0.0%	-24.6%	9.6%	115.5%	146.7%	38.4%
Margin						
Gross Profit Margin	19.9%	14.9%	13.4%	11.2%	13.1%	14.0%
Operating Profit Margin	5.3%	3.5%	3.4%	3.6%	5.7%	6.5%
Net Profit Margin	4.7%	3.1%	2.8%	3.1%	4.9%	5.6%
Key Ratios						
ROE	15.7%	8.3%	8.4%	9.6%	19.8%	22.2%
ROA	3.1%	2.1%	1.6%	2.2%	3.6%	4.2%

Dec Y/E, RMB mn	FY19	FY20	FY21	FY22E	FY23E	FY24
Non Current Asset						
PP&E, Gross	10,933.6	12,550.1	17,061.6	22,065.3	33,220.0	40,186.2
Right-of-use assets	0.0	0.0	943.8	1,833.2	2,862.2	3,462.4
Intagible assets	634.3	796.1	1,145.5	1,928.0	3,010.2	3,641.5
Construction in progress	653.7	643.1	2,429.7	4,719.6	7,368.7	8,913.9
Other non-current assets	1,456.1	2,042.2	3,611.2	5,177.4	7,906.6	9,498.6
Total Non Current Assets	13,677.7	16,031.5	25,191.9	35,723.6	54,367.7	65,702.6
Current Asset						
Cash & cash equivalent	13,541.5	16,028.7	18,408.8	27,581.6	40,602.2	47,628.1
Accounts receivable and note receivable	7,982.5	6,473.0	11,137.0	17,006.8	26,552.6	32,120.6
Inventories	5,351.0	8,362.9	13,250.1	19,579.5	30,569.3	36,979.7
Other current assets	4,588.1	3,638.5	4,883.4	9,568.0	14,938.4	18,071.0
Total Current Assets	31,463.1	34,503.1	47,679.2	73,735.9	112,662.5	134,799.4
Total Assets	45,140.8	50,534.6	72,871.1	109,459.6	167,030.2	200,502.1
Non Current Liabilities						
Lease liabilities	0.0	0.0	615.1	1,194.7	1,865.3	2,256.5
Long-term borrowing	383.5	396.2	399.3	639.7	2,395.6	2,447.5
Long-term payable	4,051.3	6,975.7	10,259.7	15,695.7	24,505.6	29,644.4
Other non-current liabilities	926.7	1,100.7	1,236.0	2,484.8	3,879.5	4,693.0
Total Non-current Liabilities	5,361.6	8,472.6	12,510.1	20,014.9	32,646.0	39,041.4
Current Liabilities						
Accounts payables	14,756.3	16,182.5	22,921.9	40,614.9	63,411.7	76,709.1
other payables	435.0	533.6	942.0	1,413.8	2,207.3	2,670.2
Short-term borrowing	8,107.3	7,277.0	11,690.0	3,624.9	9,582.5	9,789.9
Contract liabilities and Advances from customers	4.367.0	2.431.8	5,754.9	9.514.0	14.854.2	17.969.1
Other current liabilities	7,426.4	5,554.8	11,250.0	18,234.3	28,469.1	34,439.0
Total Current Liabilities	30,724.9	29,547.9	46,803.8	63,887.9	103,670.6	123,608.3
Equity						
Shareholders' equity	8,802.8	12,508.8	13,551.9	25,551.4	30,708.4	37,847.1
Minority interests	251.5	5.3	5.3	5.3	5.3	5.3
Total equity	9.054.3	12.514.1	13.557.2	25,556,7	30,713.6	37.852.4
Total Liabilities and Equity	45,140.8	50,534.6	72,871.1	109,459.6	167,030.2	200,502.1
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Consolidated Statement of Cash Flow						
Dec Y/E, RMB mn	FY19	FY20	FY21E	FY22E	FY23E	FY24
CFO	2.464.2	2.507.9	3.228.7	13.521.7	17.155.8	18.091.9
Net Profit	1.380.8	1.041.6	1.141.4	2,459.5	6.067.0	8.398.5
Minorities	15.7	1.0	(0.0)	0.0	0.0	0.0
Depreciation and amortization	937.3	1,281.6	1,577.1	2,192.3	2,956.6	4,475.2
Finance expenses	291.4	1,007.1	1,249.1	604.5	213.2	598.9
Decrease in working capital	2,331.8	(522.0)	(422.8)	7,362.0	5,413.9	3,158.0
Others	(2,492.8)	(301.4)	(316.0)	903.3	2,505.1	1,461.3
CFI	(3,904.6)	(3,866.8)	(9,130.7)	(12,724.1)	(21,600.7)	(15,810.1
Total Capex	(4.026.0)	(4.003.8)	(9,167.7)	(10.816.3)	(18,849.8)	(16,649.8
Others	121.4	137.0	37.1	(1,907.8)	(2,750.9)	839.8
CFF	4,589.3	2.908.4	5.683.6	8.375.3	17.465.4	4,744.1
Proceeds from Borrowings	13,962.3	22,958.4	27,080.5	344.3	29,308.6	22,321.7
Repayment of borrowings	(12,573.8)	(23,875.3)	(22,549.0)	(8,169.0)	(21,595.0)	(22,062.4
Equity investment	(12,575.8)	3,875.5	0.0	9,770.0	(21,555.0)	(22,002.4
Dividend and interest paid	(260.7)	(281.8)	(387.8)	(834.5)	(1,123.3)	(1,858.7
Others	(260.7) 3.456.1	(281.8) 231.6	(387.8) 1,539.9	(834.5) 7.264.5	(1,123.3) 10.875.1	6,343.5
Net Change in Cash	3,456.1	1.549.5	(218.3)	9.172.8	10,875.1	7.025.9
FX impact	3,148.9 (0.1)	1,549.5 (0.3)	(218.3) (0.5)	9,172.8	13,020.6	7,025.9
	(0.1)	(0.3) 16,028.7	(0.5) 18.408.8	27.581.6	40.602.2	47.628.1
Cash and CE at Y/E	15,541.5	10,028.7	10,408.8	27,581.6	40,002.2	47,628.1

Current Price as of: 14 Sep Source : PSHK Est.

Jinko Solar

PHILLIP RESEARCH STOCK SELECTION SYSTEMS

Total Return	Recommendation	Rating	Remarks
>+20%	Buy	1	>20% upside from the current price
+5% to +20%	Accumulate	2	+5% to +20%upside from the current price
-5% to +5%	Neutral	3	Trade within ± 5% from the current price
-5% to -20%	Reduce	4	-5% to -20% downside from the current price
<-20%	Sell	5	>20%downside from the current price

We do not base our recommendations entirely on the above quantitative return bands. We consider qualitative factors like (but not limited to) a stock's risk reward profile, market sentiment, recent rate of share price appreciation, presence or absence of stock price catalysts, and speculative undertones surrounding the stock, before making our final recommendation

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