

# JAPSTON

## Efficiency Engineered for the Long Haul



### GRID TIE INVERTERS

Single Phase | Three Phase

MADE IN INDIA

# Eastman Introduction

## Founded in 2006

Established in 2006, Eastman Auto & Power Limited is a well-known name in the field of solar energy, energy storage, and power electronics, boasting a USD 420 million revenue and a dedicated workforce of over 3,000 professionals. Building on the group's decades-long success and maintaining the trust of our partners, Mr. Jagdish Rai Singal ventured into the future of energy with Eastman Auto & Power Limited.

Today, the business spans over 50 countries across Asia, the Middle East, Europe, Africa, the Caribbean, Central America, North America, and South America, providing the world with cutting-edge products that have set new benchmarks in their respective segments. With products reaching more than 100 countries, we are driven by innovation to continually set industry standards, ensuring uninterrupted power supply for residential, commercial, and industrial applications.



# SOLAR PV INVERTER (ON-GRID) SINGLE PHASE

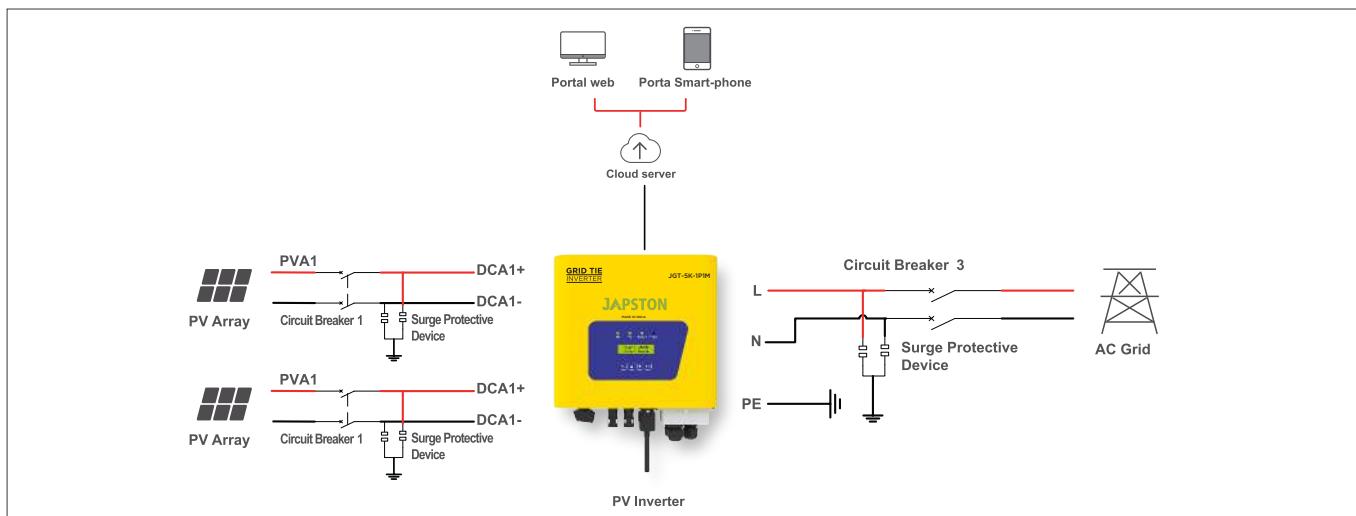
## 3 ~ 6 kW (Residential System)

The Japston On-Grid PV Single-phase inverters are designed for residential PV system applications, rating from 3kW to 6kW. All models have unibody housings with aluminum structure which is anodized, increasing durability and effectively prevents corrosion. Equipped with external inductors, the unibody housings can ensure efficient heat dissipation, which significantly improves the reliability and extends the life of the inverters. The inverter menu is activated by sensor touch buttons. Communication can be done via the Wi-Fi module (can be changed to Ethernet / GPRS). Check the system status anytime and anywhere via online portal or APP.



 Max. Efficiency 97.5%	 Low startup DC voltage	 Max. DC overloading 30%	 Wide AC voltage range
 Type-II SPD Enabled AC and DC Side	 Japston Solar App for Remote Monitoring 24x7	 Built in zero export function	 IP 65 Enclosure

### System Diagram



## Product Specifications

Model	JGT-3K-1P1M	JGT-3.6K-1P1M	JGT-5K-1P1M	JGT-6K-1P1M
Max Dc input power (kW)	3.9	4.7	7.5	9
Max DC input voltage	550VDC		600 VDC	
MPPT operating range	70-500		70-550	
Max DC Input Current	20		20	
Max Short Circuit Current	30		30	
No of MPP tracker	1		1	
No. of string per MPP tracker	1		2	
Start-up Voltage(V)		80VDC		
<b>Output (AC)</b>				
Rated output power (kW)	3	3.6	5	6
Max active power (kW)	3.3	3.96	5.5	6.6
Max apparent power (kVA)	3.3	3.96	5.5	6.6
Rated Output Voltage /Range		230VAC / 195.5 to 253 VAC		
Rated Grid Frequency/Range		50Hz(45Hz - 55Hz) / 60 * Hz(55Hz - 65Hz)		
Operating Phase		Single		
Rated AC Grid Output Current	13.1	15.7	21.8	26.1
Max.AC Output Current	14.4	17.3	24	28.7
Output power factor		0.8 lag to 0.8 lead		
THD Current		<3%		
<b>Efficiency</b>				
Max Efficiency		97.50%		
MPPT Efficiency		>99%		
<b>Protection</b>				
DC Reverse polarity protection		Yes		
AC Short Circuit Protection		Yes		
AC Output Overcurrent Protection		Yes		
Output Overvoltage Protection		Yes		
Insulation Resistance Protection		Yes		
Ground Fault Monitoring		Yes		
Anti-islanding Protection		Yes		
Temperature Protection		Yes		
Remote software upload		Yes		
Remote change of operating Parameters		Yes		
Surge protection level		DC Type II/AC Type II		
<b>General Data</b>				
Size mm	280Wx310Hx184D (Excluding Connectors and Brackets)		330Wx323Hx190D (Excluding Connectors and Brackets)	
Weight (Kg)	6.35		8	
Internal Consumption		<1W (Night)		
Operating Temperature		-25°C to 60°C, >45°C derating		
Ingress Protection		IP65		
Max. Operating Altitude without Derating		2000m		
Grid Connection Standard	IEC 61727, IEC 62116, CEI 0-21, EN50549, NRS097, RD 140, UNE217OO2, G98, G99, VDE-AR-N4105			
Operating Surrounding Humidity		0-100%		
Safety EMC/standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			
Communication interface	RS485/Wi-Fi/LAN			
Permissible Altitude	2000 m			
Noise (dB)	35			
Ingress Protection (IP Rating)	IP65			
Inverter topology	Transformerless			
Overvoltage Category	OVC II (DC) / OVC III (AC)			
Type of Cooling	Natural Cooling			
<b>Features</b>				
Display	LCD1602			
Interface	RS485/Wi-Fi/LAN			

\*Product Specification are subject to change without prior notice

# SOLAR PV INVERTER(ON-GRID)

## THREE PHASE

### 5~ 20 kW

(Residential & commercial)

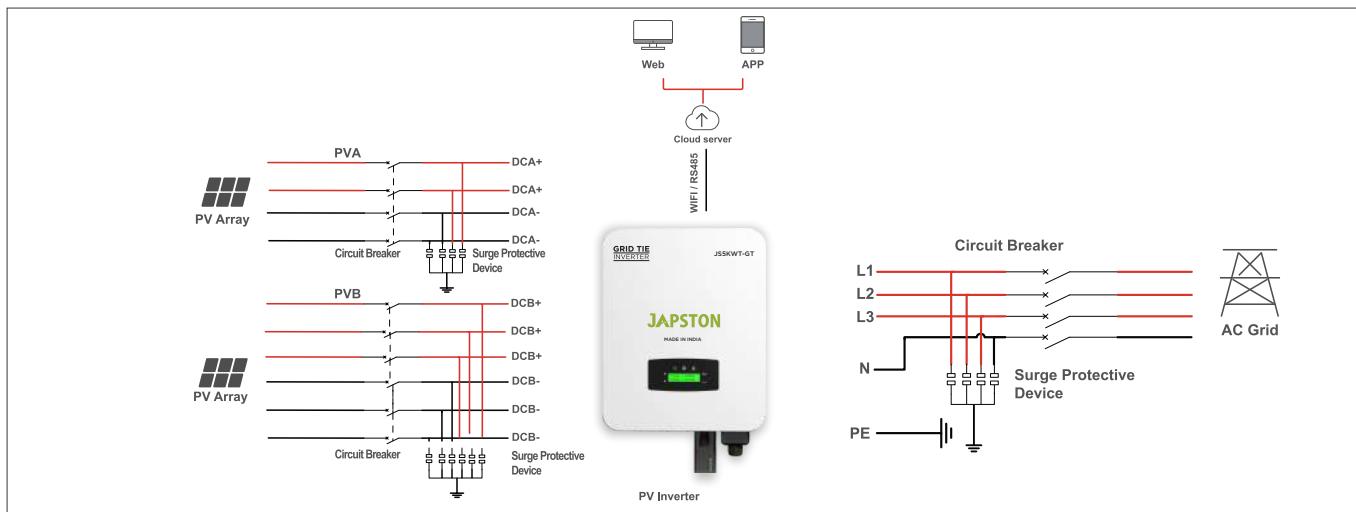
The Japston Three-phase string inverters are designed for commercial and power plant PV system applications, rating from 10kW to 30kW. All models with aluminum housings which is anodized, increasing durability and effectively prevents corrosion. Equipped with external inductors, ensure efficient dissipation, which significantly improves the reliability and extends the life of the inverters.

The inverter menu is activated by sensor touch buttons. Communication implements are via the Wi-Fi module (can be changed to Ethernet / GPRS). Check the system status anytime and anywhere via online portal APP.



	Max. Efficiency 98.75%		Low startup DC voltage		Max. DC overloading 30%		Wide AC voltage range
	Type-II SPD Enabled AC and DC Side		Japston Solar App for Remote Monitoring 24x7		Built in zero export function		IP 65 Enclosure

#### System Diagram



## Product Specifications

Model	JS5KWT-GT	JS8KWT-GT	JS10KWT-GT	JS15KWT-GT	JS20KWT-GT
Max Dc input power (kW)	7.5	12	15	22.5	30
Max DC input voltage			1100VDC		
MPPT operating range			150-1000VDC		
Max DC Input Current		2x15A		20A + 32A	2x32A
Max Short Circuit Current		2x25A		30A + 48A	2x48A
No of MPP tracker			2		2
No. of string per MPP tracker		2		3	4
Start-up Voltage (V)			150VDC		
<b>Output (AC)</b>					
Rated output power (kW)	5	8	10	15	20
Max active power (kW)	5.5	8.8	11	16.5	22
Max apparent power (kVA)	5.5	8.8	11	16.5	22
Rated Output Voltage/Range			380VAC(Ph-Ph) / 280-490 VAC (Ph-Ph)		
Rated Grid Frequency/Range			50/60Hz (45-55Hz/55-65Hz)		
Operating Phase			3P+N+PE		
Max.AC Output Current	8.5	13.5	17	27	32
Output power factor			1 default (adjustable from 0.8 leading to 0.8 lagging)		
Harmonics			<3%		<3%
<b>Efficiency</b>					
Max Efficiency	98.30%	98.30%	98.70%	98.70%	98.75%
MPPT Efficiency			99.90%		
<b>Equipment Protection</b>					
DC Reverse polarity protection			Yes		
Integrated DC switch			Yes		
Surge Protection			Integrated (Type II)		
Residual Current Detection			Yes		
PV Insulation Resistance Detection			Yes		
Residual Current Protection			Yes		
Inverter topology			Transformerless		
Ingress Protection (IP Rating)			IP65		
Communication			RS485/Wifi/LAN		
<b>General Data</b>					
Operating Temperature Range (°C)			-25 to +60		
Permissible Ambient Humidity			0-100%		
Permissible Altitude (m)			4000m		
Noise (dB)		<30 dB		<40 dB	
Cabinet Size W*H*D [mm]	370 x 510 x 167 (Excluding connectors and brackets)	370 x 510 x 192 (Excluding connectors and brackets)	370 x 510 x 192 (Excluding connectors and brackets)	370 x 535 x 192 (Excluding connectors and brackets)	
Weight [kg]	16	16	16	17	19
Type of Cooling		Natural cooling		Intelligent air cooling	
Grid Regulation		IEC 61727, IEC 62116.CEI 0-21, EN 50549, NRS 097, RD 140,UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105			

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