SAATVIK
FOR A BETTER FUTURE

SINGLE PHASE ON-GRID INVERTER

UDAY SERIES

RANGE: 1.1 kW - 6 kW



PV input oversizing	Max. PV Current	Protection Standard	MPPT Efficiency
150%	Up To 25A	IP65	>99%

Key Features

- Compatible with high watt peak panels Mono Perc, TOPCon & Bifacial
- Fast installation, easy O&M
- Type II SPD for both DC and AC
- Remote monitoring, configuration and upgrade
- Embedded Anti-Islanding Protection
- Built-in zero export function (Optional)
- Optional AFCI protection function

Appearance & Structural Optimization

Display Optimization
With 3 display lights and 4 operation buttons

Structural Optimization
Built with strong die-cast aluminium housing.

Button Optimization
Uses state-of-the-art touch buttons

Product Range

Phase	Kilowatt
Single	1.1kW
Single	2.2kW
Single	2.5kW
Single	2.7kW
Single	3kW
Single	3.3kW
Single	3.68kW
Single	4kW
Single	5kW
Single	6kW

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TECHNICAL SPECIFICATIONS

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Model	SS-GTI-1P 1.1KW-A1	SS-GTI-1P 2.2KW-A1	SS-GTI-1P 2.5KW-A1	SS-GTI-1P 2.7KW-A1	SS-GTI-1P 3KW-A1	SS-GTI-1P 3.3KW-A1	SS-GTI-1P 3.68K-A1	SS-GTI-1P 4K-A1	SS-GTI-1P 5K-A1	SS-GTI-1P 6K-A1
PV Input										
Max. Recommended PV Power [Wp]	1650	3300	3750	4050	4500	4950	5500	6000	7500	7500
Max. PV Input Voltage [V]		500			550			600		
MPPT Voltage Range [V]					45 ~ 550			80 ~ 550		
Rated PV Input Voltage [V]					360			360		
Start-up Voltage [V]					70			100		
No. of MPP Trackers					1			1		
No. of Input Strings per Tracker					1			1		
Max. PV Input Current [A]					18			20		
Max. Short-circuit Current [A]					23			25		
AC Output										
Rated AC Output Power [W]	1100	2200	2500	2700	3000	3300	3680	4000	5000	6000
Max. AC Output Apparent Power [VA]	1100	2200	2500	2700	3000	3300	3680	4400	5000	6000
Max. AC Output Current [A]	5	10	11.4	12.3	13.6	15	16	20	25	27.3
Rated AC Voltage [V]					L / N / PE, 220 / 230 / 240					
Grid Frequency [Hz]					50 / 60					
Adjustable Power Factor [cosφ]					0.8 leading ~ 0.8 lagging					
Output THDi (@Rated Output)					< 3%					
Efficiency										
Max. Efficiency	97.5%	97.5%	97.5%	97.6%	97.6%	97.6%	97.9%	97.9%	97.9%	97.9%
Euro Efficiency	96.9%	96.9%	96.9%	97.2%	97.2%	97.2%	97.2%	97.2%	97.2%	97.2%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Protection										
DC Insulation Monitoring					Integrated					
Input Reverse Polarity Protection					Integrated					
Anti-island Protection					Integrated					
Residual Current Monitoring					Integrated					
AC Overcurrent Protection					Integrated					
AC Short-circuit Protection					Integrated					
DC Surge Protection					Integrated (Type II)					
AC Surge Protection					Integrated (Type II)					
AFCI Protection					Optional					
DC Switch					Optional					
General Data										
Dimensions (W * H * D) [mm]					290 * 220 * 119			353 * 320 * 150		
Weight [kg]					5.5			10		
Display					LED + OLED					
Communication					Optional: WiFi, 4G, Ethernet					
DC connection					MC4 Connectors					
Standards					BIS certified as per IS / IEC standards					
Mounting Method					Wall-mounting bracket					
Ambient Temperature Range [°C]					-25 ~ +60					
Relative Humidity					0 ~ 100%					
Operating Altitude [m]					≤2000					
Night Self-consumption [W]					< 1					
Topology					Transformerless					
Cooling					Natural					
Ingress Protection					IP65					
Noise [dB]					< 25					
Storage Temperature					-40°C to +70°C					

*T&C Apply

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THREE PHASE ON-GRID INVERTER

UDAY SERIES

RANGE: 6 kW - 50 kW



PV input oversizing	Max. PV Current	Protection Standard	MPPT Efficiency
150%	Up To 25A	IP65	>99%

Key Features

- Compatible with high watt peak panels Mono Perc, TOPCon & Bifacial
- Fast installation, easy O&M
- Type II SPD for both DC and AC
- Remote monitoring, configuration and upgrade
- Embedded Anti-Islanding Protection
- Built-in zero export function (Optional)
- Optional AFCI protection function

Appearance & Structural Optimization

Display Optimization
With 3 display lights and 4 operation buttons

Structural Optimization
Built with strong die-cast aluminium housing.

Button Optimization
Uses state-of-the-art touch buttons

Product Range

Phase	Kilowatt
Three	6kW
Three	8kW
Three	10kW
Three	12kW
Three	15kW
Three	20kW
Three	25kW
Three	30kW
Three	40kW
Three	50kW

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TECHNICAL SPECIFICATIONS

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Model	SS-GTI-3P 6kW-A1	SS-GTI-3P 8kW-A1	SS-GTI-3P 10kW-A1	SS-GTI-3P 12kW-A1	SS-GTI-3P 15kW-A1	SS-GTI-3P 20kW-A1	SS-GTI-3P 25kW-A1	SS-GTI-3P 30kW-A1	SS-GTI-3P 40kW-A1	SS-GTI-3P 50kW-A1
PV Input										
Max. Recommended PV Power [Wp]	9000	12000	15000	18000	22500	30000	37500	45000	60000	75000
Max. PV Power for Single MPPT [Wp]	4500	6000	7500	9000	8000	12000	15000	20000	20000	20000
Max. PV Input Voltage [V]	1100									
MPPT Voltage Range [V]	140 ~ 1000				180 ~ 1000			180 ~ 1000		
Rated PV Input Voltage [V]	600									
Start-up Voltage [V]	160				200					
No. of MPPT Trackers	2							3	4	
No. of Input Strings per Tracker	1 / 1				2 / 2			2 / 2 / 2	2 / 2 / 2 / 2	
Max. PV Input Current [A]	16 / 16				40 / 40			40 / 40 / 40	40 / 40 / 40 / 40	
Max. Short-circuit Current [A]	20 / 20				50 / 50			50 / 50 / 50	50 / 50 / 50 / 50	
AC Output										
Rated AC Output Power [W]	6000	8000	10,000	12,000	15000	20000	25000	30000	40000	50000
Max. AC Output Apparent Power [VA]	6600	8800	11000	13200	16500	22000	27500	33000	44000	55000
Max. AC Output Current [A]	10	13.4	16.7	20	25	33.4	41.7	50	66.6	83.3
Rated AC Voltage [V]	3 / N / PE, 220 / 380, 230 / 400									
Grid Frequency [Hz]	50 / 60									
Adjustable Power Factor [cosφ]	0.8 leading ~ 0.8 lagging									
Output THDi (@Rated Output)	< 3%									
Efficiency										
Max. Efficiency	98.4%	98.5%	98.5%	98.5%	98.6%	98.6%	98.6%	98.6%	98.8%	98.8%
Euro Efficiency	97.5%	98.0%	98.0%	98.0%	98.2%	98.2%	98.2%	97.8%	98.0%	98.0%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Protection										
DC Insulation Monitoring	Integrated									
Input Reverse Polarity Protection	Integrated									
Anti-island Protection	Integrated									
Residual Current Monitoring	Integrated									
AC Overcurrent Protection	Integrated									
AC Short-circuit Protection	Integrated									
String Current Monitoring	Integrated									
DC Surge Protection	Integrated (Type II)									
AC Surge Protection	Integrated (Type II)									
AFCI Protection	Optional									
PID Recovery Function	Optional									
DC Switch	Integrated									
General Data										
Dimensions (W * H * D) [mm]	428 * 385 * 185				520 * 412 * 200			585 * 480 * 220		
Weight [kg]	15				22			37		
Display	LED + OLED									
Communication	RS485, USB Update, Optional: WiFi, 4G, Ethernet									
DC connection	MC4 Connectors									
Standards	BIS certified as per IS / IEC standards									
Mounting Method	Wall-mounting bracket									
Ambient Temperature Range [°C]	-25 ~ +60									
Relative Humidity	0 ~ 100%									
Operating Altitude [m]	≤ 2000									
Night Self-consumption [W]	< 1									
Topology	Transformerless									
Cooling	Natural				Fan					
Ingress Protection	IP65									
Noise [dB]	< 35									
Storage Temperature	-40°C to +70°C									

*T&C Apply