Cosmic Micro Systems Put. Ltd.,

#23, 2nd 'A' Cross, JC Nagar, Mahalakshmipura Layout, Bengaluru - 560086 Ph : 080 3202 6262

Mob: +91 98800 15550 Email: sales@cosmicups.net











REGIONAL OFFICE:

NEW DELHI

Flat No.601, 6th Floor, Vishal Bhawan, 95, Nehru Place. New Delhi - 110019 M: 8527298890

TAMILNADU

No.34, A&B, East Chetty Street, St Thomas Mount. Chennai - 600016 M: 9840275766

GUJARAT

C-45, 1st Floor, Vishwas City 2, RC Technical Institute Road Ghatlodia. Ahmedabad - 380061 M: 9426516831

BIHAR

286 B, Saket Road No.13C, Rajendranagar, Patna - 800016 M: 9835152630

MAHARASHTRA

Flat No 36,4th Floor, Wing: A3, Sukh Shanti Niketan CHS Ltd. LBS Marg. Opp Vijay Sales, Ghat Kopar (W), Mubai - 400086 Ph: 022 - 25001087, M: 9029037603

TELANGANA

Mehar Manzil. H. No. 6-3-347/22/8 Behind Sai Baba Temple. Dwarakapuri Colony, Paniagutta, Hyderabad - 500082 M: 9848024547

KERALA

RR Building - No.48/651 F2, 2nd Floor, South Keerthi Nagar Elamakara PO, Kochi - 682026 M: 9447033724

JHARKHAND

Sukriti Near Lala Lajpath Rai Senior Secondary School, Lajpat Nagar Pundag, Ranchi - 834004 M: 9835152630

WEST BENGAL

Block - FB plot No.23, 613 Rajadanga Main Road, Kolkata - 700107 033 - 24413050, 9831202198

ANDHRA PRADESH

Ground Floor, D No. 45/1/83, Spandana Building, Santinagar, Padavalare VU Centre, Eluru Road, Vijayavada - 520004 M: 9010116615

MADHYA PRADESH

Manish Raikwar No. 25, Prince Nagar, Sector A, Shanwer Road, Indore - 452015 M: 9424010634

PUNE

Survey No. 32/14, Plot No. 9, Avadhoot Complex B2, Ambegaon B-K. Pune - 411046 M: 09766591787

HUBLI

No. 12 Hallikeri Building, Jayanagar, Vidyanagar, Hubli - 580021 Ph: 0836-2277486 M: 9980566117

GRID-TIE INVERTER WITH BATTERY BACKUP



BRANCH OFFICE:

MYSORE MANIPAL MANGALORE COIMBATORE HUBLI MADURAI **GULBARGA** TRICHY **BELGAUM** CALICUT

NAGAPUR **INDORE** JAMSHEDPUR **JAIPUR**

SILIGURI **VIJAYAWADA**

LUCKNOW **DEHRADUN** CHANDIGARH VISHAKHAPATNAM









SGTU-B SERIES 1kw - 60kw 1ph & 3 ph OUTPUT

Grid-tie Inverter (Hybrid Inverter) with Battery backup

- Pure sine wave output
- Local Load Consumption and Export to grid
- Can be programmed supply priority for Solar, Battery or Grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes Like On-Grid,
 Off-Grid and On-Grid with Battery Backup
- Parallel operation up to 6 units available for 3kw/4kw/5kw & 10kw Models (Optional)
- Communication RS 232, Modbus, SNMP & GPRS (Optional)



Cosmic Hybrid Inverter is a flexible and intelligent inverter which utilizes Solar power, AC Grid and Battery power source to supply continuous power to Load. It's a simple and smart solar power storage system with grid export facility for Customers to either store energy into a battery and can be use in night or use for self-consumption depending on demands. Priority for power source can be programmed and set up through smart software. During night time or power outages, it will automatically extract power from the battery source. In this way, it will reduce dependence on the Grid power.

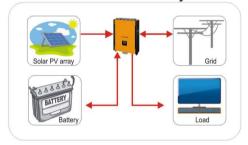


Exporting is not only choice

In comparison with conventional Grid-tie inverter, Hybrid Inverter is able to export power to the grid & also store solar power to the battery for future usage and directly power to the loads in Off grid mode during grid power failure.

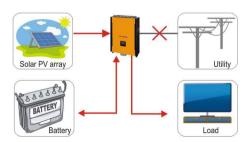


Innovative Way



Power backup when AC Grid failed

Hybrid Inverter can work as an Off-grid inverter to provide continuous power even without Grid by using Solar & Battery power. It's a perfect power solution for remote regions.



Capacity	1KW	2KW	зкพ	4KW	5KW	10KW
Model No	SGTU - 101B	SGTU - 102B	SGTU - 103B-SM	SGTU - 104B	SGTU - 105B	SGTU - 103B
RATED OUPUT POWER	1000 W	2000 W	3000W	4000W	5000W	10000 W
PV INPUT (DC)						
Max. PV Power	1000W	2000W	4000W	4000W	6000W	14850 W
Max. PV Array Open Circuit Voltage	145 VDC	145 VDC	145 VDC	145 VDC	145 VDC	900 VDC
MPPT Range @ Operating Voltage	15 VDC~115 VDC	30 VDC~115 VDC	60 VDC~115 VDC	60 VDC~115 VDC	60 VDC~115 VDC	350 VDC ~ 850 VDC
lumber of MPP Tracker	1	1	1	1	2	2
GRID-TIE OPERATION						
GRID OUTPUT (AC)						
Nominal Output Voltage	220/230/240 VAC					230 VAC (P-N) / 400 VAC (P-P)
eed in Grid Voltage Range	195.5~253 VAC or 184 ~ 264.5 VAC (Settable)					184 - 265 VAC per phase
eed in Grid Frequency Range	47.5~57.3Hz					47.5~57.3Hz
Nominal Output Current	4.3A	8.7A	13A	17.4A	21.7A	14.5 A per phase
Power Factor	>0.99					>0.99
Maximum Conversion Efficiency (DC/AC)	90%					96%
OFF-GRID, HYBRID OPERATION	-				<u> </u>	
GRID INPUT					T	
Acceptable Input Voltage Range	170 - 280 VAC					170 - 280 VAC per phase
Nominal Frequency	50 Hz (Auto sensing)					50 Hz (Auto sensing)
Maximum AC input Current	30A			40A	-	40A
BATTERY MODE OUTPUT (AC)						
Nominal Output Voltage	220/230/240 VAC					230 VAC (P-N) / 400 VAC (P-P)
Output Waveform	Pure Sine Wave					Pure Sine Wave
Efficiency (DC to AC)	93%					93%
BATTERY & CHARGER			3370			35,0
Nominal DC Voltage	12 VDC	24 VDC	48 VDC	48 VDC	48 VDC	48 VDC
Maximum Charging Current	12 100	140	100 000000	10 100	180A	200A
Maximum Charging Current (from Grid)	60A					User settable
Maximum Charging Current (from PV)	80A 120A					User settable
GENERAL		00			120/1	OSCI SCLUDIC
Dimension, D X W X H (mm)	100 x 300 x 440	100 x 300 x 440	120 x 295 x 468	120 x 295 x 468	190 x 295 x 483	167.2 x 500 x 622
Net Weight (kgs)		100 x 300 x 440		120 x 295 x 466	190 x 295 x 483	45
INTERFACE		0		1.1	10	45
Parallel Function (Optional)	N/A N/A N/A					V
Communication (Optional)	N/A N/A Yes USB or RS232/Dry-Contact/SNMP/GPRS/Modbus					Yes
ENVIRONMENT			USB or RS	232/Dry-Contact/SN	MP/GPRS/Modbus	
				0.004 BH (1)	1	
Humidity	0 ~ 90% RH (No condensing)					
Operating Temperature	0 to 50°C					-10 to 55°C