TECHKRAFT
Industries India

INVERTERS

- MPPT
- IP65 PROTECTION
- ABCC TECHNOLOGY
- MNRE & IEC
- REMOTE MONITORING
- PURE SINE WAVE

MADE IN INDIA MADE IN

Techkraft Industries Private Limited
www.techkraftIndustries.com

TECHKRAFT

Widest Range of Solar Inverter

NXT+ PCU

1.25 kVA - 12.5 kVA

Shine Retrofit

12V - 120V

NXG+ Inverter

400VA - 1100VA

NXi Grid Tie Inverter

1kW - 60kW

Microinverter

1.5kW

iCruze Combo

3KVA - 10KVA

Cruze Combo

2KVA - 7.5KVA

Charge Controller

12V - 24V

Solar C10 Rated Batteries

20 Ah - 200 Ah

GRID TIE INVERTERS

Safe and Efficient

The NXi range from Techkraft is available in single and three phase configurations. With best-in-class reliability and compliance to safety standards, the inverters are available in capacities from 1kW to 60 kW.

5 Years Warranty

> 97% Efficiency

Connectivity Options

MPPT

Maximum Power Point Tracking
MPPTs to extract up to 30% more power from the panels, minimizing impact of shading and increasing efficiency.

Anti- Islanding Protection
Disconnects the inverter from grid during power failure preventing any electrical shock to the linemen at work.

IP65 Protection
Designed to work in tough weather conditions. Flawless operation despite dust, rain or extreme temperature variations

MNRE & IEC Compliance
Complies with MNRE recommended standards
IEC - 61683, IEC – 60068, IEC – 61000, IEC – 61727, IEC – 62116

Remote Monitoring
Multiple modes of connectivity (GSM/Wi-fi) for remote monitoring enables proactive maintenance.

Solar Estimation Chart

Solution		No. of MPPT	Panel Connection Combination per MPPT (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
Solar UPS	**PV Panel Watt**			
NXI 1kW	330Wp x 3 No.s	1	3 (S)	100
NXI 2kW	330Wp x 6 No.s	1	6 (S)	200
NXI 3kW	330Wp x 10 No.s	1	10 (S)	300
NXI 4kW	330Wp x 12 No.s	2	6 (S)	400
NXI 5kW	330Wp x 16 No.s	2	8 (S)	500
NXI 6kW	330Wp x 20 No.s	2	10 (S)	600
NXI 10kW	330Wp x 32 No.s	2	16 (S)	1000
NXI 15kW	330Wp x 48 No.s	2	12 (S) 2 (P)	1500
NXI 20kW	330Wp x 64 No.s	4	16 (S)	2000
NXI 25kW	330Wp x 84 No.s	4	21 (S)	2500
NXI 50kW	330Wp x 168 No.s	4	21 (S) 2 (P)	5000

Single Phase

MODEL	Nxi 110	Nxi 120	Nxi 130	Nxi 140	Nxi 150
Input DC					
Max. DC Input Power (kW)	1.2	2.3	3.5	4.6	5.8
Max. DC Input Voltage (V)	600				
Start-up Voltage [V]	60	90		120	
MPPT Voltage range (V)	50-500	80 - 500		100 - 500	
Max input current per MPPT (A)	11A			11A+11A	
Number of MPPT	1			2	
Max Input Strings Number	1			2	
Output (AC)					
Rated output power (kW)	1	2	3	4	5
Max. output power [kW]	1.1	2.2	3.3	4.4	5
Max. output Current [A]	5.2	10.5	15.7	21	25
Grid voltage range (V)	160-285				
Grid Frequency range (Hz)	50/60 Hz				
Power Factor (at rated output power)	0.8 …1... 0.8				
Total harmonic distortion [THDi]	< 1.5%				
Feed-in phase/connection phase	Single Phase				
Efficiency					
Max. Efficiency	>97.2%		97.5%	> 98.1%	
MPPT Efficiency	>99.5%				
Protection					
Inbuilt Protections	DC Reverse Polarity Protection, Short Circuit Protection, O/P Over Current Protection, O/P Over voltage protection, Insulation resistance monitoring, Residual current detection, surge protection, Islanding Protection, Temperature Protection				
Interface					
DC Connection	MC4 Connectors				
Display	LCD 2X 20 Z				
Datalogger & Communication	RS485/GSM/Wifi* (Optional)				
General Data					
Topology	Transformerless				
Consumption @ night	< 1 W				
Operating Temperature Range	-25°C to 60°C				
Cooling Method	Natural Convention				
Relative Humidity	0 - 100 %				
Max. Operational Altitude	4000m				
Noise [dBA]	<20dBA		<30dba	<30 dba	
Designed Lifetime	> 20 years				
Ingress Protection	IP65				
Dimensions (W*H*D) [mm]	310W*373H*160D(mm)			310W *543H *160D	
Net weight (Kg)	7.4		7.7	11.5	
Standards					
Safety/EMC	IEC62109-1/-2, NB/T 32004, EN61000-6-1, EN61000-6-3				

POWER CONDITIONING UNIT

High Capacity & Control

The NXT+ range of PCUs is the ideal solution for Off-grid applications. Designed to offer control, the PCU intelligently optimizes battery charging and power to load among Solar, Battery and Grid power. Available from 1.25kVA to 12.5kVA.
Warranty: 2 Years

- High Efficiency MPPT
- User Controlled Settings
- Long Power backup

Priority Settings
Priority settings allow the user to choose among reduced grid dependency & energy savings, enhanced backup and autonomy from grid.

Guaranteed Safety
Comprehensive protection features include short-circuit, reverse polarity, battery over-charge etc.

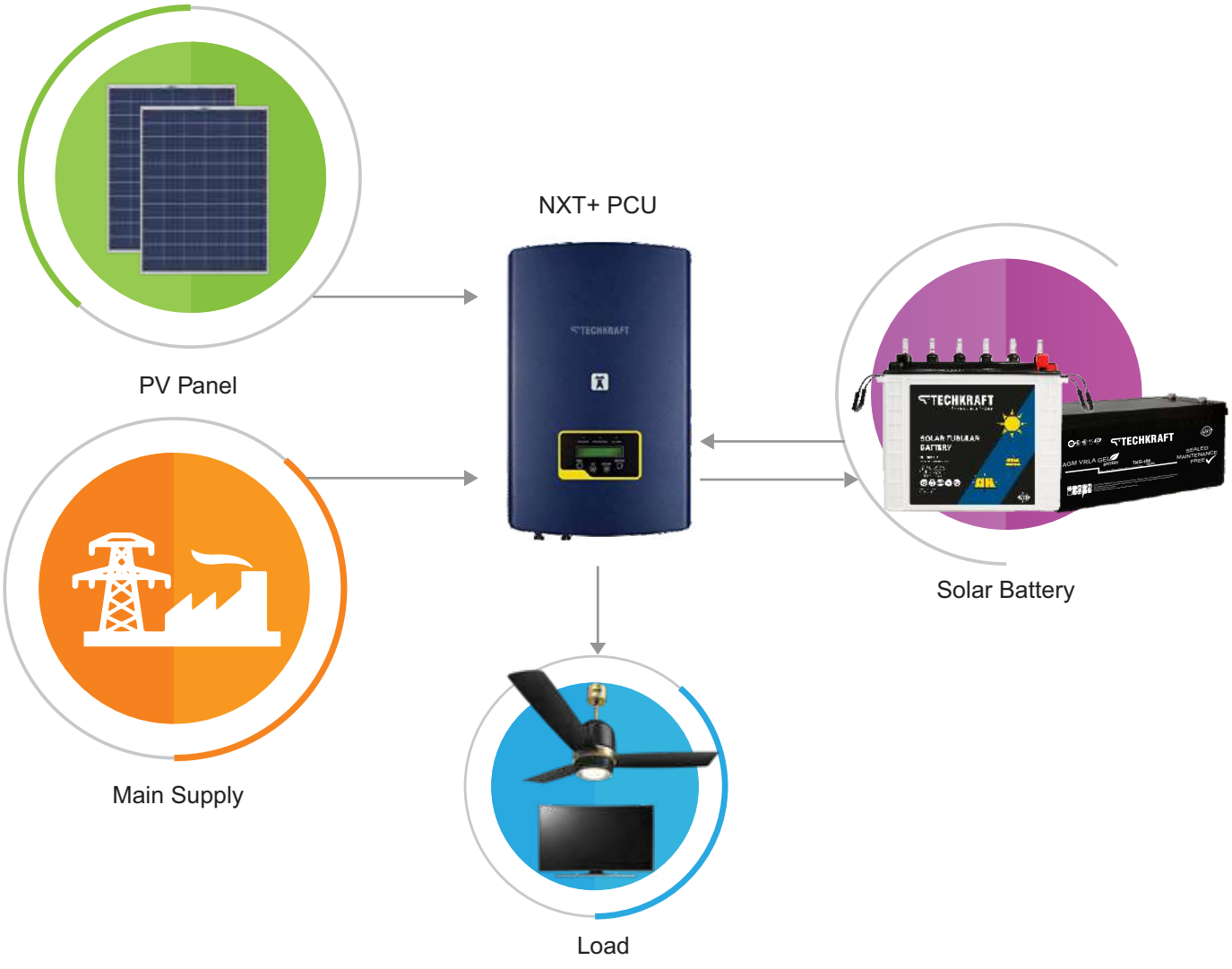
User-friendly Display
A user friendly display communicates important parameters like discharge time, grid availability, selected priority setting etc.

MNRE & IEC Compliance
Complies with MNRE recommended standards IEC – 61683, IEC – 60068 – 1,2,14,30, IEC – 60529

MPPT
Maximum Power Point Tracking
MPPTs extract 30% more power as compared to UPS with PWM charge controllers.

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
Solar UPS	**Solar Battery**	**PV Panel Watt**		
NXT+ 1.25 kVA	80 Ah x 4	330Wp x 3 No.s	3 (S)	100
NXT+ 2.5 kVA	150 Ah x 4	330Wp x 6 No.s	3 (S) 2 (P)	200
NXT+ 3.75 kVA	200 Ah x 4	330Wp x 9 No.s	3 (S) 3 (P)	300
NXT+ 7.5 kVA	200 Ah x 8	330Wp x 20 No.s	4 (S) 5 (P)	600
NXT+ 9.5 kVA	200 Ah x 10	330Wp x 24 No.s	6 (S) 4 (P)	750
NXT+ 12.5 kVA	200 Ah x 10	330Wp x 30 No.s	6 (S) 5 (P)	1000



Technical Specifications

Model Name	NXT+ 1.25 kVA	NXT+ 2.5 kVA	NXT+ 3.75 kVA	NXT+ 7.5 kVA	NXT+ 9.5 kVA	NXT+ 12.5 kVA
Capacity (kW)	1	2	3	6	7.5	10
Nominal Battery Voltage (Vdc)	48V			96V	120V	
Output Waveform	Sine Wave					
SOLAR PHOTOVOLTAIC INPUT						
Type of Charger	MPPT					
Maximum PV power (kW)	1	2	3	6	7.5	10
Input Voltage range (Voc)	80 - 165			160-240	180-300	
Input Voltage range (Vmp)	65 - 130			120-210	150-240	
GRID INPUT						
Input Supply Phases	Single Phase					
Nominal Voltage & Voltage range	230V AC (185V - 265V)					
Nominal Frequency & Range	50 Hz (±3 Hz)					
BATTERY						
Battery recharge current range from Grid Side (A)	0-12	0-24	0-30	0-30	0-35	0-45
Battery recharge current range from Array Side (A)	0-20	0-40	0-60	0-60	0-65	0-80
Charging Stages	Float, Bulk, Boost				Boost, Absorption, Float	
UPS						
Switching Element	MOSFET			IGBT		
Control	32 Bit DSP controlled					
Nominal Output V_{AC}	230V ± 1% , Single Phase					
Output waveform	Pure Sine Wave					
Nominal Frequency	50 Hz (±0.5 Hz)					
Power Factor	0.8 lag to 0.8 lead					
Nominal Output Current (A)	4.3	8.5	13	26	33	44
Overload at nominal output voltage	110% for 10 Minutes, 200% for 5 Secs					
SYSTEM DATA						
Noise @ 1 meter (dBA ± 2dBA)	<58dBA			<62dBA		
Transfer Time	<20 mS					
Protection	Under/Over voltage protection for Input, Output, Battery & Array; Reverse polarity protection for Array & Battery; Protection for Output Overload, Short circuit and Over Temperature; MCB & Surge protection at Grid/DG Input, Battery, Array Path and PCU O/P					
Display Parameters	Voltage/Current: Array, Battery, Grid, Output; Day kWh, Cumulative kWh, Date, Time					
Indications	Battery Charging/ Discharging, Grid ON, Load ON, UPS ON, Array ON, Fault LED Indicator (For Overload, Low Battery, Over Temperature),					
Setting	Battery type, Battery voltage (Boost & Float), Priority (SGB/SBG), Charging Current from Grid					
ENVIRONMENT						
IP Protection Level	IP-21					
Operating Temperature (˚C)	0-50 °C without any degradation					
Max. Relative humidity @ 25˚C	Up to 95% (non-condensing)					
Max. Altitude above sea level without de-rating (m)	1000 m					
STANDARD COMPLIANCE						
Certifications	IEC 61683, IEC 60068-2(1,2 14, 30)					
GENERAL						
Dimension (W*D*H) [mm]	300x504x515			350x635x589	400x575x783	
Net Weight (Kg)	30	37	50	76.3	125	150

HIGH CAPACITY COMBO-1

Solar solutions with tough build

Cruze & Shine combination runs heavy loads with extreme ease and efficiency.

Available from 2 KVA to 7.5 KVA

Warranty: 2 Years

Ideal For
Heavy Loads

User Friendly
Display

Run Heavy Loads

Runs heavy loads like Geyser, Petrol Pumps, Photocopiers, Dental Chairs etc.

ABCC Technology

Adaptive Battery Charging Control System (ABCC) ensures faster battery charging and enhances battery life by 70%.

Intuitive Display

Easy to understand display shows the status of mains availability, battery charging, battery level, etc.

Guaranteed Safety

Comprehensive protection against short-circuit, reverse polarity, battery over-charge and battery deep-discharge.

Pure Sine Wave Output

Ensures noiseless operation and safety of connected appliances.

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)	Approx. Roof To Area Required (Sq. ft.)
Solar UPS	Solar Battery	PV Panel Watt		
Cruze 2KVA + Shine 3650	150 Ah x 2	330Wp x 5 No.s	1 (S) 5 (P)	170
Cruze 2.5KVA + Shine 3650	150 Ah x 3	165Wp x 15 No.s	3 (S) 5 (P)	260
Cruze 3.5KVA + Shine 4850	150 Ah x 4	330Wp x 8 No.s	2 (S) 4 (P)	280
Cruze 5.5KVA + Shine 9650	150 Ah x 8	330Wp x 12 No.s	4 (S) 3 (P)	560
Cruze 7.5KVA + Shine 12050	150 Ah x 10	330Wp x 20 No.s	5 (S) 4 (P)	700

Technical Specifications

Model Name		Cruze 2 KVA+Shine 3650	Cruze 2.5 KVA+Shine 3650	Cruze 3.5 KVA+ Shine 4850	Cruze 5.5 KVA+ Shine 9650	Cruze 7.5 KVA 12050
Capacity		2000VA	2500VA	3500VA	5500VA	7500VA
Nominal Battery Voltage (Vdc)		24V	36V	48V	96V	120V
Output Waveform		Sine Wave				
SOLAR PHOTOVOLTAIC INPUT						
Charge Controller Type		PWM				
Charge Controller Rating		50 Amp/24V	50 Amp/36V	50 Amp/48V	50 Amp/96V	50 Amp/120V
Maximum PV Power		Upto 1700Wp	Upto 2500Wp	Upto 2800Wp	Upto 5600Wp	Upto 7000Wp
Input Voltage range (Voc)		38-55	57-75	70-92	140-185	170-230
Input Voltage range (Vmp)		34-39	51-57	60-77	119-153	145-191
GRID INPUT						
Operating Voltage Range		100V-285V	100V-285V	100V-285V	140V-280V	140V-280V
Max Grid Charging Current		21Amp	21Amp	21 Amp	12Amp	12Amp
PROTECTIONS						
Protections	Cruze	Overload, Short-circuit, Battery Deep Discharge Protection, & MCB Protection				
	Shine	**Reverse polarity , reverse current , Over-voltage, Over-temperature protections**				
DISPLAY INDICATIONS						
Indications	Cruze	Mains On, UPS On, UPS Overload, Battery Low, Battery Charging, Level of Battery Charge				
	Shine	PV & Grid status, Charging source, Battery type, Battery voltage, Savings				
GENERAL						
Net Weight (Kg)	Cruze	22.25	22.25	31.9	59.2	64
	Shine	3	3	4.5	5.7	5.7
Dimensions LxWxH (mm)	Cruze	280x305x280	280x305x280	280x305x380	588x341x347	600x350x360
	Shine	280x129x205	280x129x205	375x315x135	375x315x135	375x315x135

Technical specifications are subject to change without prior notice.

HIGH CAPACITY COMBO-2

Solar solutions with tough build

iCruze & Shine combination runs heavy loads with extreme ease and efficiency.

Available from 3kVA to 10kVA

Warranty: 2 Years (iCruze), 1Year (Shine)

Efficient Heavy Load Handling

Stunning LCD Display

Intelligent Battery Charging

Efficient Heavy Load Handling

Runs heavy loads like Geyser, Petrol Pumps, Photocopiers, Dental Chairs etc.

Intelligent Battery Charging Algorithm

Optimizes the charging current according to the battery capacity

User Friendly LCD Display

Easy to understand display shows the status of mains availability, battery charging, battery level, etc.

Guaranteed Safety

Comprehensive protection against short-circuit, reverse polarity, battery over-charge and battery deep-discharge.

Pure Sine Wave Output

Ensures noiseless operation and safety of connected appliances.

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
Solar UPS	Solar Battery	PV Panel Watt		
iCruze 3k + Shine 2420	150Ah x 2	**330Wp x 2 No.s**	2 (P)	**80**
iCruze 3k + Shine 3650	150Ah x 3	**330Wp x 5 No.s**	5 (P)	**200**
iCruze 4.5k + Shine 3650	150Ah x 3	**165Wp x 15 No.s**	3 (S) 5(P)	**300**
iCruze 9k + Shine 9650	150Ah x 8	**330Wp x 16 No.s**	4 (S) 4(P)	**600**
iCruze 10k + Shine 12050	150Ah x 10	**330Wp x 20 No.s**	5 (S) 4 (P)	**700**

Technical Specifications

Model Name		iCruze 3k + Shine 2420	iCruze 3k + Shine 3650	iCruze 4.5k + Shine 3650	iCruze 9k + Shine 9650	iCruze 10k + 12050
Capacity		**2800VA**	**2800VA**	**4000VA**	**8100VA**	**9500VA**
Nominal Battery Voltage (Vdc)		24V	24V	36V	96V	120V
Output Waveform		Sine Wave				
SOLAR PHOTOVOLTAIC INPUT						
Controller Type		PWM				
Charge Controller Rating		20 Amp/24V	50 Amp/24V	50 Amp/36V	50 Amp/96V	50 Amp/120V
Maximum PV Power		Upto 800Wp	Upto 1700Wp	Upto 2500Wp	Upto 5600Wp	Upto 7000Wp
Input Voltage range (Voc)		36-50	38-55	57-75	140-185	170-230
Input Voltage range (Vmp)		31-39	34-39	51-57	119-153	145-191
GRID INPUT						
Operating Voltage Range		100V-280V	100V-280V	100V-280V	140V-280V	140V-280V
Max Grid Charging Current		20Amp	20Amp	20 Amp	20Amp	20Amp
PROTECTIONS						
Protections	**iCruze**	Overload, Short Circuit, No Load shutdown, Over Temperature, Battery Low, Temperature Sensor Failed				
	Shine	Reverse polarity , reverse current , Over-voltage, Over-temperature protections				
DISPLAY INDICATIONS						
Indications	**iCruze**	**Mains On, mode selector, fault indicator, battery charging/settings, back-up/battery charging time, load percentage,** battery low, overload, mains/battery MCB trip, short circuit, no load shutdown (<5% for 11 hrs.)				
	Shine	PV & Grid status, Charging source, Battery type, Battery voltage, Savings				
GENERAL						
Net Weight (Kg)	**iCruze**	22.25	22.25	30.5	48	71.62
	Shine	1.2	3	3	5.7	5.7
Dimensions LxWxH (mm)	**iCruze**	300X326X284	300X326X284	300X417X452	300X487X452	300X471X560
	Shine	178x71x159	280x129x205	280x129x205	375x315x135	375x315x135

Technical specifications are subject to change without prior notice.

SOLAR INVERTERS

The Solar Ready UPS

NXG+ range is a hybrid UPS range that intelligently uses grid and solar power. With ability to operate in a wide voltage range, NXG+ is the ideal starter solar solution for homes.

2 Years Warranty

Maximized Solar Usage

User Defined Settings

ISOT Technology
Intelligent Solar Optimization Technique (ISOT) maximizes solar energy usage in both backup and charging mode of operation.

Fast Charging
i-charge technology enables charging of batteries in a short time. This is a user defined setting.

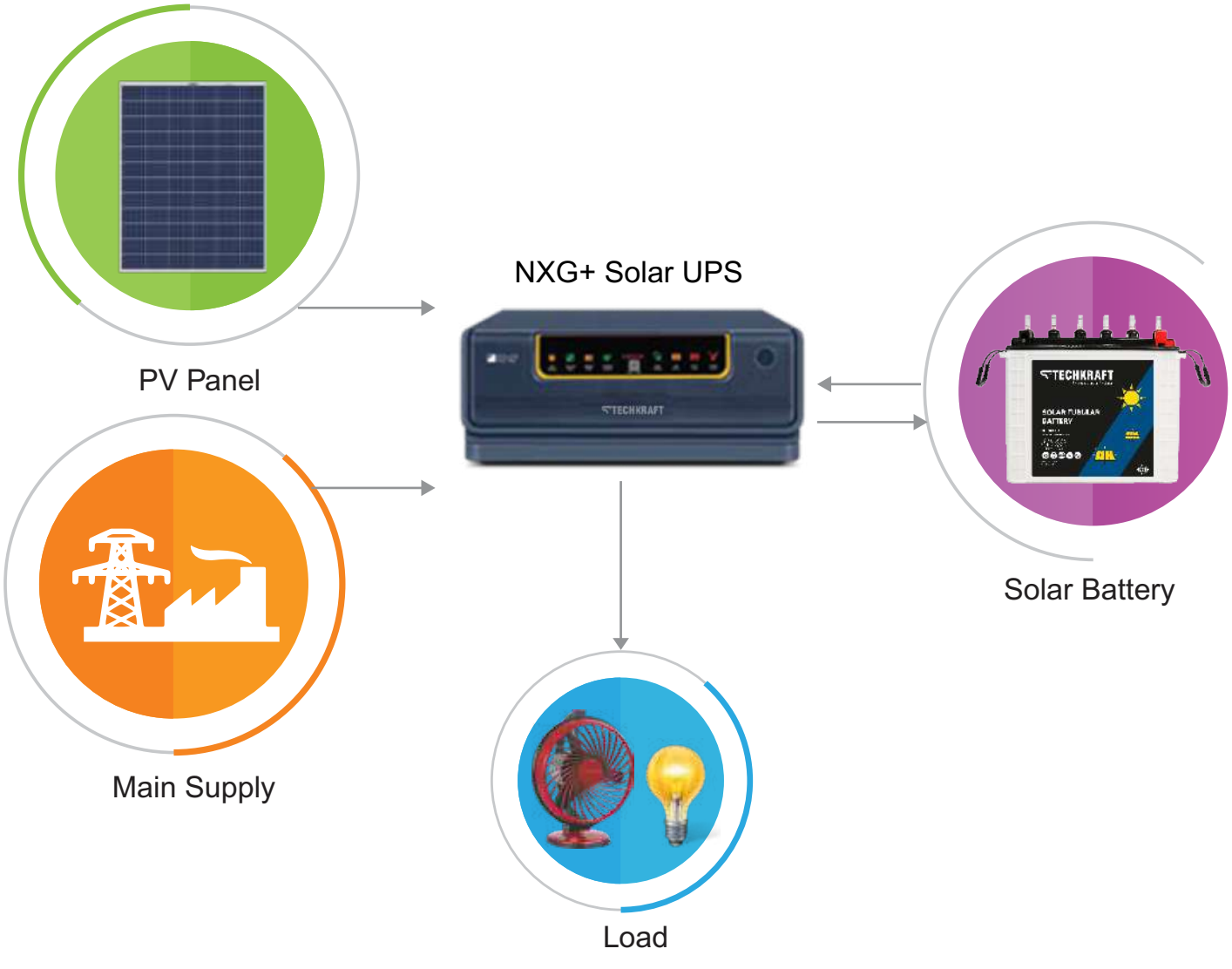
ECO and UPS Mode
Choice between Eco mode that conserves battery (Ideal for low voltage areas) and UPS mode (Ideal for computer loads)

Safety and Protection
In-built protection against deep discharge, overcharge, excessive current and short-circuit.

Pure Sine Wave Output
Ensures noiseless operation and safety of connected appliances.

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
Solar UPS	Solar Battery	PV Panel Watt		
NXG+ 750	120 Ah x 1	165 Wp x 2 No.s	2 (P)	40
NXG+ 1100	150 Ah x 1	165 Wp x 4 No.s	4 (P)	80
NXG+ 1400	150 Ah x 1	165 Wp x 4 No.s	4 (P)	80
NXG+ 1600	150 Ah x 2	330 Wp x 3 No.s	3 (P)	100



TECHNICAL SPECIFICATION

Model Name	NXG+ 750	NXG+ 1100	NXG+ 1400	NXG+ 1600
Nominal Battery Voltage (Vdc)	12V	12V	12V	24V
Output Waveform	Sine Wave			
SOLAR PHOTOVOLTAIC INPUT				
Charge Controller Type	PWM			
Charge Controller Rating	20Amp/12V	40Amp/12V	40Amp/12V	20Amp/24V
Maximum PV Power	12V upto 400 Wp	12V upto 800 Wp	12V upto 1000 Wp	24V upto 1000 Wp
Input Voltage range (Voc)	19-25	19-25	19-25	38-50
Input Voltage range (Vmp)	17-19	17-19	17-19	34-39
GRID INPUT				
Operating Voltage Range	100V-290V			
GRID OUTPUT				
No Load Output	230±10V	220±5V		
Output frequency battery mode	50Hz±0.5Hz			
No load current (UPS switch off)	< 65mA			
UPS efficiency	≥ 80%*			≥ 85%*
BATTERY				
Battery charging through Mains	Mains LED steady + Mains charge LED steady			
Battery charging through Mains + Solar	Mains LED steady+Mains charge LED steady+solar CHG LED steady/Blinking			
Battery charging through Solar	Solar CHG LED Blinking + Mains charge LED OFF			
Low battery pre-alarm indication	Battery low LED blinking			
Solar optimization after battery fully charged	ON mains+power save LED on+ON battery LED on+solar charge LED blinking			
PROTECTIONS				
Over load	110% - 150% for 30 Sec.	110% for 4.5 Min.	110% for 30 Sec.	110% for 4.5 Min.
	150%-180% for 10 Sec.	120% for 1 Min	120% for 5 Sec.	120% for 1 Min
	200%- Short circuit	150% for 10 Sec.	200% for 1 Sec.	150% for 10 Sec.
	NA	200% for 1 Sec.		200% for 1 Sec.
Overload shutdown indication in UPS mode	Overload LED steady			
Overload pre-alarm indication in UPS mode	Overload LED slow blinking			
Short circuit indication in UPS mode	Overload LED fast blinking			
Protections	Short circuit, overload, high temperature, battery low cut off			
Indications	Switch on, Battery Charging;mains, solar, mains+solar; Overload, Short circuit, i-charge			
Additional features	NA			
DISPLAY INDICATIONS				
Switch on indication	Switch LED ON			
UPS on indication	Battery LED ON			
Internal fault	NA	Service assistance LED on		
Mains on indication	Mains LED steady			
Mains charging current selection charge	6A (i-Charge Off)/ 10A (i-Charge ON)	10A (i-Chg OFF)/15A (i-Chg ON)		
DC overload indication	NA	(Mains LED+overload) blinking		NA
GENERAL				
Net weight (Kg)	9.3Kg	11.5Kg	14.6Kg	15.66Kg
Gross weight (Kg)	10.7Kg	12.7Kg	16.03Kg	16.90Kg
Dimensions LxWxH (mm)	375X315X135	375X315X135	375X315X150	375X315X150

RETROFIT

Smart upgrade to Solar

Shine Retrofit is a smart upgrade that converts existing inverter into solar inverter without any change in existing wiring. Ideal for small to large systems <10KVA

Solar Optimization

User Friendly Display

Solar Optimization Technique
Solar optimization technique extracts maximum power by intelligently prioritizing solar over grid.

LCD Display
User friendly displays commu - nicates information like battery Charging Status, Charging Source, Total unit savings etc.

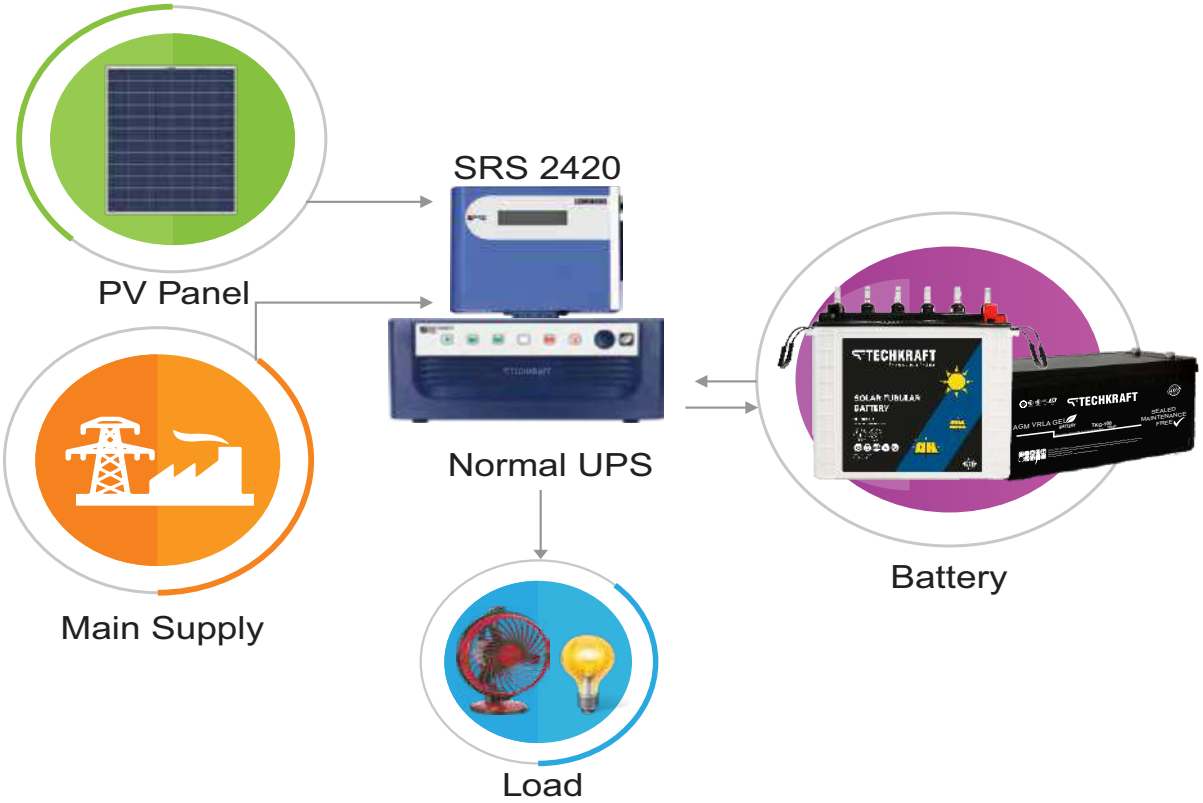
Warranty
1 Year warranty

Four Stage Charging
4-stage smart charging ensures fast, safe & efficient charging and longer battery life.

MCB Protection
World class MCB ensures your UPS and connected loads stay protected from short circuits.

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
Solar UPS	**Solar Retrofit**	**PV Panel Watt**		
12VUPS	SHINE 1220	**165Wp x 2 No.s**	2 (P)	**40**
24V UPS	SHINE 2420	**330Wp x 2 No.s**	2 (P)	**80**
24V UPS	SHINE 3650	**330Wp x 5 No.s**	5 (P)	**200**
36V UPS	SHINE 3650	**165Wp x 15 No.s**	3 (S) 5 (P)	**300**
48V UPS	SHINE 4850	**330Wp x 8 No.s**	2 (S) 4 (P)	**300**
96V UPS	SHINE 9650	**330Wp x 16 No.s**	4 (S) 4 (P)	**600**
120V UPS	SHINE 12050	**330Wp x 20 No.s**	5 (S) 4 (P)	**700**



Technical Specifications

Model Name	Shine 1220	Shine 2420	Shine 3650	Shine 4850	Shine 9650	Shine 12050
Charge Controller Type	PWM					
Charge Controller Rating	20A @12V	20A @12V/24V	50A@24V/36V	50A @48V	50A @96V	50A @120V
Maximum PV Power	100Wp-400Wp @ 12V	100Wp-400Wp @ 12V 200Wp-800Wp @24V	250Wp-1700Wp @ 24V 375Wp-2500Wp @36V	Upto 2800 Wp	Upto 5600 Wp	Upto 7000 Wp
Input Voltage range (Voc)	17-25	17-25 @ 12V, 36-50 @ 24V	38-55 @ 24V, 57-75 @ 36V	70-92	140-185	170-230
Input Voltage range (Vmp)	15-21	15-21 @ 12V, 31-39 @ 24V	34-39 @ 24V, 51-57 @ 36V	60-77	119-153	145-191
Operating temperature range	0 0 to + 45 0	0 C to + 45 0	0 C to 50 0	0 C to + 45	0 0 C to + 45 0	0 C to + 45
Power connection	30A Terminal Block	30A Terminal Block	65A Terminal Block	60A Terminal Block		
Dimension (mm)	178x71x159		280x129x205	375x315x135		
Wire size	6 Sq. mm	6 Sq. mm	10 Sq. mm	16 Sq. mm		
Weight (kg)	1.2	1.2	3	4.5	5.7	5.7

CHARGE CONTROLLER

Easy upgrade to Solar

Techkraft Charge controllers provide an easy upgrade to solar for existing users of DC loads.

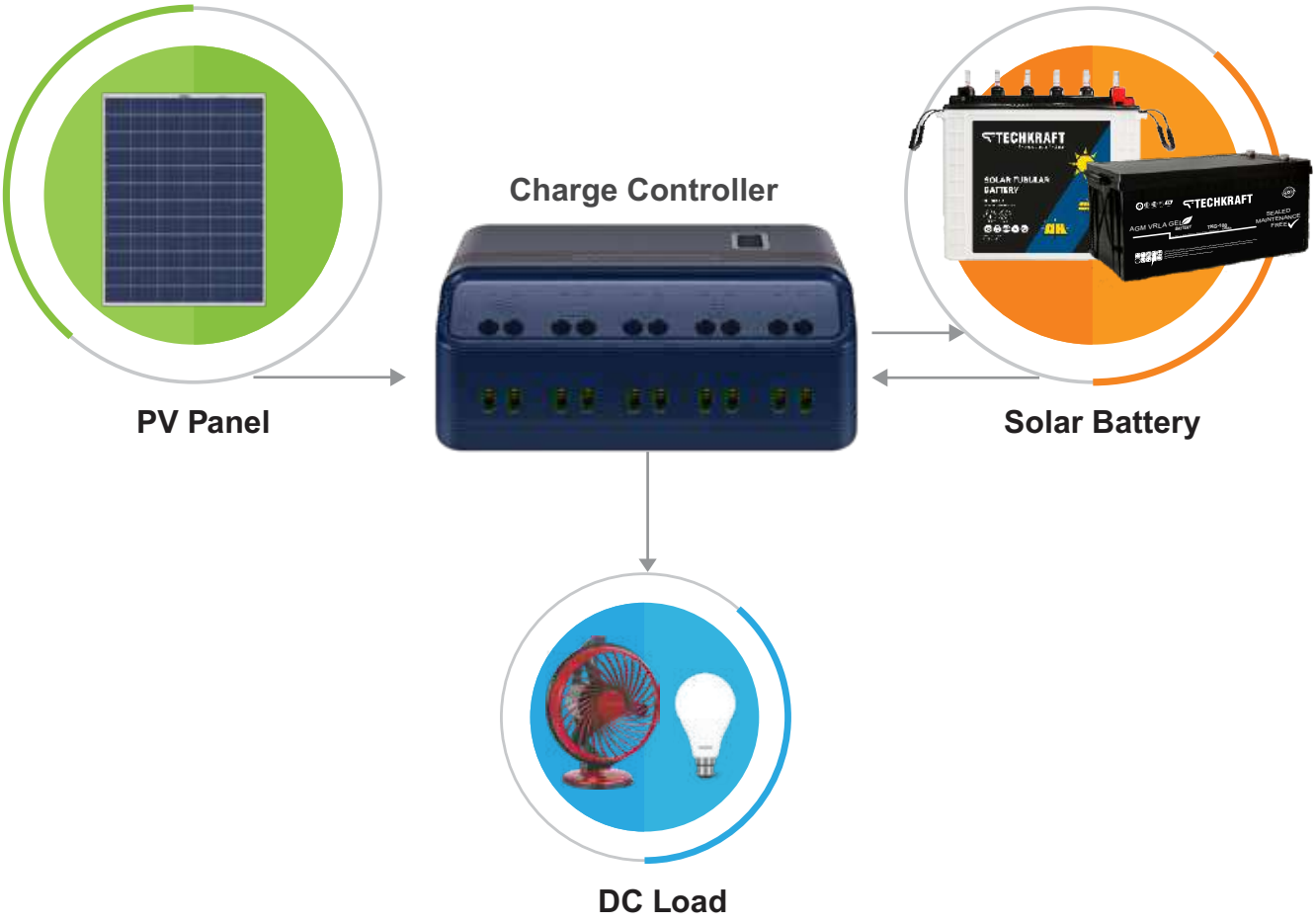
Protection Against Over-Charge and Reverse Current
Charges batteries from solar panels without permitting overcharge and also prevent reverse current flow at night.

Warranty
1 Year Warranty

USB Port
Charge your DC devices like Mobile, Tablets etc. directly without using adapter.

Technical Specifications

Solution			Panel Connection Combination (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
Solar Charge Controller	DC Voltage	PV Panel Watt		
SCC 1206	@12V	105Wp x 1 No.s	1 (S)	10
SCC 1210	@12V	165Wp x 1 No.s	1 (S)	20
SCC 1210	@24V	330Wp x 1 No.s	1 (S)	40
SCC 1220	@12V	165Wp x 2 No.s	2 (P)	40
SCC 1220	@24V	330Wp x 2 No.s	2 (P)	80



Technical Specifications

Model Name	SCC1206NM	SCC1210NM	SCC1220NM
Charge Controller Type	PWM		
Charge Controller Rating	6A @ 12V	10A @ 12V / 24V	20A @ 12V / 24V
Maximum PV Power	125Wp @ 12V	200Wp @ 12V/400Wp @ 24V	400Wp @ 12V/800Wp @ 24V
Input Voltage range (Voc)	17-25	17-25 @ 12V, 36-50 @ 24V	
Input Voltage range (Vmp)	15-21	15-21 @ 12V, 31-39 @ 24V	
Low voltage disconnect			
A)â By state of charge	N.A	Available	
B) Controlled by voltage	Available		
Self consumption	Less than 10mA		
Efficiency:			
A) Charging	98.50%		96%
B) Load	98%		96%
Operating temperature range	0ºC to 50ºC		
Power connections	30 Ampere Terminal		
Battery type selection	Lead Acid & SMF		
Enclosure	ABS Plastic, IP21		
Dimensions (mm)	40 x 60 x 135 (L x W x H)		
Wire size	2.5 sq. mm	4 sq. mm	6 sq. mm
Net weight	275 gms	300 gms	350 gms

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