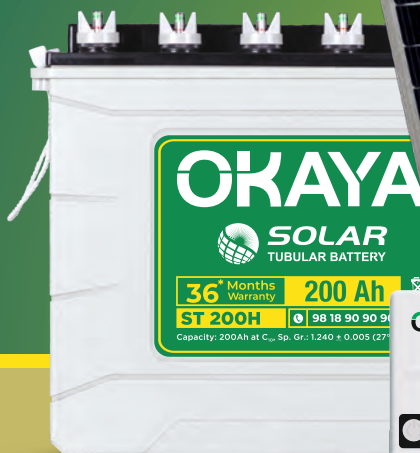


INTRODUCING OKAYA[®]



DRIVEN BY TRUST, POWERED BY SUN

PRODUCT CATALOGUE 2025



OKAYA[®]



Okaya brings you a reliable,
efficient, and future-ready range of solar solutions
designed to meet the needs of homes and businesses of
dependable backup or long-term savings.



GRID-TIED (ON-GRID) INVERTERS

SOLAR GTI 3KW P1 & GTI 5KW P1



FREE!
WIFI DONGLE



SOLAR ON-GRID INVERTERS

KEY FEATURES



**UP TO 98%
EFFICIENCY**



**UP TO 120%
DC INPUT
OVERLOAD**



**HIGH RATED
MPPT TRACKER**



**RATED
PROTECTION**

ONGRID SOLAR INVERTERS

Powering the Future with Cutting-Edge Technology

Introducing our latest Ongrid Solar Inverters, designed to seamlessly integrate with the newest solar panel technologies, including TOPCon, HJT, and Mono PERC. Engineered for maximum efficiency and reliability, these inverters not only enhance energy conversion but also ensure long-term performance.

With a sleek design, advanced power features, and a best-in-class warranty, our Ongrid Inverters set a new benchmark in solar energy solutions. Experience superior performance and durability, making your transition to solar energy smarter and more efficient than ever.

CERTIFICATIONS:

IEC 62109 -1/2, IEC 61727, IEC 61683, IEC 60068, IEC 62116
IEC 61000 EMC



PRODUCT SKUs# | (Single-Phase)

MODEL NUMBER	SOLAR GTI 3KW P1	SOLAR GTI 5KW P1
INPUT (DC)		
Max. Peak DC Input Power (KW)	3.6kW	5.175kW
Max. DC I/p (V dc)	550V	
Max. MPPT I/p Current (A)	20A	16A
MPPT Short Circuit Current (A)	26A	20A
MPPT Tracking Voltage (Vdc)	70-550 Vdc	100-550 Vdc
Min. Start Voltage (V)	70 Vdc	100 Vdc
Number of MPPT Tracker	1	
Strings per MPPT Trackers	1	
OUTPUT (AC)		
Rated Output Power (kW)	3	5
Rated Grid Voltage (V)	230V (140V - 300V)	
Nominal Grid Freq.(Hz)	50Hz / 60Hz (47-52Hz) / (57-62Hz)	
Max. Output Current AC (A)	13	21.7
AC Connection (With PE)	P + N + E	
THDI (%)	<3% (At Rated Power)	
Output Power Factor (%)	0.8 Leading... 1... 0.8 Lagging	
EFFICIENCY		
Max. Conversion Eff.(%)	98	
Max. Euro Efficiency (%)	97.5	
PROTECTION		
Anti-islanding Protection	Yes Integrated	
Insulation Resistance Detection	Yes Integrated	
Residual Current Monitoring	Yes Integrated	
Over Voltage Protection	Yes Integrated	
DC Switch	Optional	
Surge Protection	MOV / SPD / Filters	
GENERAL DATA		
Dimensions (W*H*D) mm	297x223x117	370x277x115
Weight (Kg)	4.5Kg	10Kg
Noise Emission (db)	<30dB	
Display	LED with LCD Display	
DC Connection Type	MC-4	
AC Connection Type	Plug in Connector / Wirecables	
Communication Interface	WiFi/ GPRS/ RS 485	
Cooling Method	Natural Convection/Smart Fan Cooling	
Operating Ambient	-25°C - +60°C	
Relative Humidity	0% - 100%	
Max. Operating Altitude (m)	2000 (>2000 Derating)	
Protection Class	IP65	
Night Stand By Power Consumption (w)	<1	
Standard Warranty	10 Years	

"BIS, IEC 62109 -I/2, IEC 61727, IEC 61683, IEC 60068, IEC 62116, IEC 61000 EMC
*Note - All spec cation are subject to change without notice due to continuous upgradation in Modules Wp capacity"

GRID-TIED (ON-GRID) INVERTERS

SOLAR GTI 5KW P3 To
GTI 30KW P3



FREE!
WIFI DONGLE



SOLAR ON-GRID INVERTERS

KEY FEATURES



UP TO 98%
EFFICIENCY



UP TO 120%
DC INPUT
OVERLOAD



HIGH RATED
MPPT TRACKER



RATED
PROTECTION

ONGRID SOLAR INVERTERS Powering the Future with Cutting-Edge Technology

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With a sleek design, advanced power features, and a best-in-class warranty, our Ongrid Inverters set a new benchmark in solar energy solutions. Experience superior performance and durability, making your transition to solar energy smarter and more efficient than ever.

CERTIFICATIONS:
IEC 62109 -1/2, IEC 61727, IEC 61683, IEC 60068, IEC 62116
IEC 61000 EMC



PRODUCT SKUs# | (Three-Phase)

MODEL NUMBER	SOLAR GTI 5KW P3	SOLAR GTI 8KW P3	SOLAR GTI 10KW P3
INPUT (DC)			
Max. Peak DC Input Power (KW)	6KW	9.6KW	12KW
Max. DC I/p (V dc)	1000V		
Max. MPPT I/p Current (A)	20A	13/16A	
MPPT Short Circuit Current (A)	26A	20A	
MPPT Tracking Voltage (Vdc)	200-1000 Vdc		
Min. Start Voltage (V)	150 Vdc		
Number of MPPT Tracker	1	2	
Strings per MPPT Tracker	1		
OUTPUT (AC)			
Rated Output Power (kW)	5	8	10
Rated Grid Voltage (V)	380V / 400V / 415V (300V - 500V)		
Nominal Grid Freq.(Hz)	50Hz / 60Hz		
Max. Output Current AC (A)	7.2	11.5	14.5
AC Connection (With PE)	3P + N + E		
THDI (%)	<3% (At Rated Power)		
Output Power Factor (%)	0.8 Leading... 1... 0.8 Lagging		
EFFICIENCY			
Max. Conversion Eff. (%)	98		
Max. Euro Efficiency (%)	97.5		
PROTECTION			
Anti-islanding Protection	Yes Integrated		
Insulation Resistance Detection	Yes Integrated		
Residual Current Monitoring	Yes Integrated		
Over Voltage Protection	Yes Integrated		
DC Switch	Inbuilt		
Surge Protection	MOV / SPD / Filters		
GENERAL DATA			
Dimensions (W*H*D) mm	425x351x160		
Weight (Kg)	13.7Kg		
Noise Emission (db)	<30dB		
Display	LED with LCD Display		
DC Connection Type	MC-4		
AC Connection Type	Plug in Connector / Wirecables		
Communication Interface	WiFi/ GPRS/ RS 485		
Cooling Method	Natural Convection/Smart Fan Cooling		
Operating Ambient	-25°C - +60°C		
Relative Humidity	0% - 100%		
Max. Operating Altitude (m)	2000 (>2000 Derating)		
Protection Class	IP65		
Night Stand By Power Consumption (w)	<1		
Standard Warranty	10 Years		

"BIS, IEC 62109 -1/2, IEC 61727, IEC 61683, IEC 60068, IEC 62116, IEC 61000 EMC
*Note - All spec cation are subject to change without notice due to continuous upgradation in Modules Wp capacity"

PRODUCT SKUs# | (Three-Phase)

MODEL NUMBER	SOLAR GTI 15KW P3	SOLAR GTI 20KW P3
INPUT (DC)		
Max. Peak DC Input Power (KW)	18KW	24KW
Max. DC I/p (V dc)	1000V	
Max. MPPT I/p Current (A)	26A	
MPPT Short Circuit Current (A)	40A	
MPPT Tracking Voltage (Vdc)	150-1000 Vdc	
Min. Start Voltage (V)	150/180 Vdc	
Number of MPPT Tracker	2	
Strings per MPPT Tracker	2	
OUTPUT (AC)		
Rated Output Power (kW)	15	20
Rated Grid Voltage (V)	380V / 400V / 415V (300V - 500V)	
Nominal Grid Freq.(Hz)	50Hz / 60Hz	
Max. Output Current AC (A)	21.7	28.9
AC Connection (With PE)	3P + N + E	
THDI (%)	<3% (At Rated Power)	
Output Power Factor (%)	0.8 Leading... 1... 0.8 Lagging	
EFFICIENCY		
Max. Conversion Eff.(%)	98	
Max. Euro Efficiency (%)	97.5	
PROTECTION		
Anti-islanding Protection	Yes Integrated	
Insulation Resistance Detection	Yes Integrated	
Residual Current Monitoring	Yes Integrated	
Over Voltage Protection	Yes Integrated	
DC Switch	Optional	
Surge Protection	MOV / SPD / Filters	
GENERAL DATA		
Dimensions (W*H*D) mm	425x351x200	
Weight (Kg)	20Kg	
Noise Emission (db)	<30dB	
Display	LED with LCD Display	
DC Connection Type	MC-4	
AC Connection Type	Plug in Connector	
Communication Interface	WiFi/ GPRS/ RS 485	
Cooling Method	Natural Convection/Smart Fan Cooling	
Operating Ambient	-25°C - +60°C	
Relative Humidity	0% - 100%	
Max. Operating Altitude (m)	2000 (>2000 Derating)	
Protection Class	IP65	
Night Stand By Power Consumption (w)	<1	
Standard Warranty	10 Years	

"BIS, IEC 62109 -1/2, IEC 61727, IEC 61683, IEC 60068, IEC 62116, IEC 61000 EMC
*Note - All spec cation are subject to change without notice due to continuous upgradation in Modules Wp capacity"

PRODUCT SKUs# | (Three-Phase)

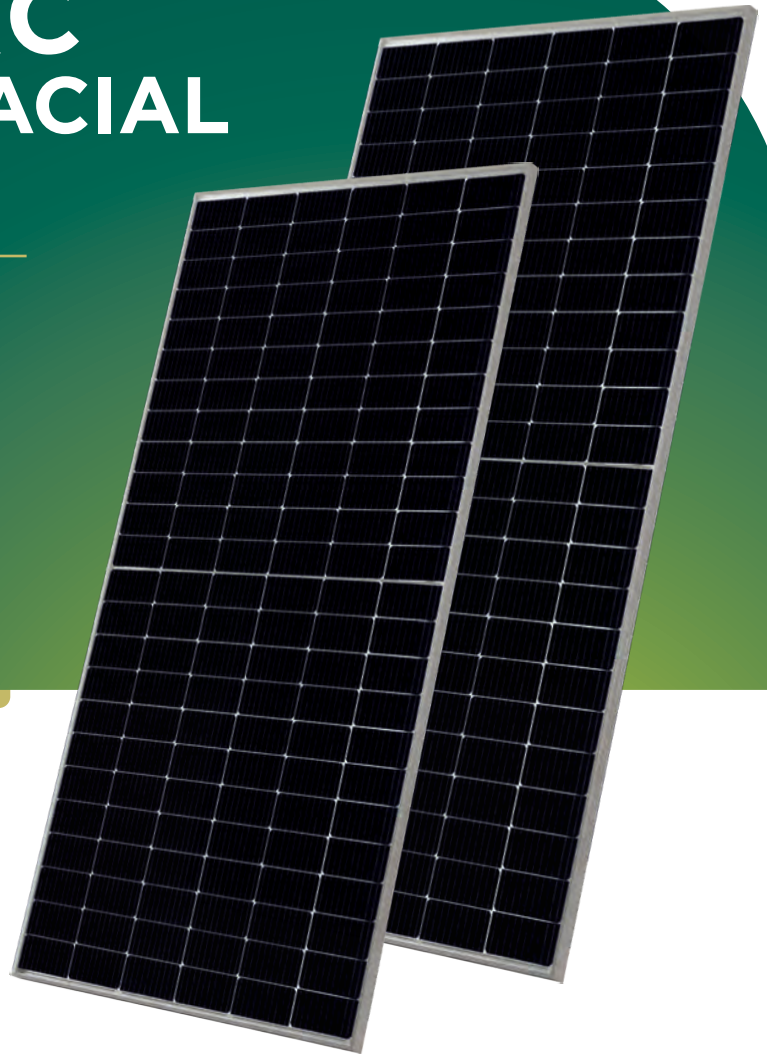
MODEL NUMBER	SOLAR GTI 25KW P3	SOLAR GTI 30KW P3
INPUT (DC)		
Max. Peak DC Input Power (KW)	30KW	36KW
Max. DC I/p (V dc)	1000V	
Max. MPPT I/p Current (A)	26A	30A
MPPT Short Circuit Current (A)	40A	45A
MPPT Tracking Voltage (Vdc)	150-1000 Vdc	
Min. Start Voltage (V)	150/180 Vdc	
Number of MPPT Tracker	2	3
Strings per MPPT Tracker	2	
OUTPUT (AC)		
Rated Output Power (kW)	25	30
Rated Grid Voltage (V)	380V / 400V / 415V (300V - 500V)	
Nominal Grid Freq.(Hz)	50Hz / 60Hz	
Max. Output Current AC (A)	36.12	43.35
AC Connection (With PE)	3P + N + E	
THDI (%)	<3% (At Rated Power)	
Output Power Factor (%)	0.8 Leading... 1... 0.8 Lagging	
EFFICIENCY		
Max. Conversion Eff.(%)	98	
Max. Euro Efficiency (%)	97.5	
PROTECTION		
Anti-islanding Protection	Yes Integrated	
Insulation Resistance Detection	Yes Integrated	
Residual Current Monitoring	Yes Integrated	
Over Voltage Protection	Yes Integrated	
DC Switch	Optional	
Surge Protection	MOV / SPD / Filters	
GENERAL DATA		
Dimensions (W*H*D) mm	425x351x200	580x435x242
Weight (Kg)	20Kg	40Kg
Noise Emission (db)	<30dB	
Display	LED with LCD Display	
DC Connection Type	MC-4	
AC Connection Type	Plug in Connector	Terminal Block
Communication Interface	WiFi/ GPRS/ RS 485	
Cooling Method	Natural Convection/Smart Fan Cooling	
Operating Ambient	-25°C - +60°C	
Relative Humidity	0% - 100%	
Max. Operating Altitude (m)	2000 (>2000 Derating)	
Protection Class	IP65	
Night Stand By Power Consumption (w)	<1	<2
Standard Warranty	10 Years	

"BIS, IEC 62109 -1/2, IEC 61727, IEC 61683, IEC 60068, IEC 62116, IEC 61000 EMC
*Note - All spec cation are subject to change without notice due to continuous upgradation in Modules Wp capacity"

MONO PERC HALF CUT BIFACIAL (144 CELL)

550Wp (DCR/Non-DCR)

SOLAR PANELS



KEY FEATURES



**HIGH-EFFICIENCY
MONO PERC CELLS**



**ANTI-REFLECTIVE
GLASS COATING**



**BIFACIAL
POWER GAIN**



**POSITIVE POWER
TOLERANCE**



**MBB HALF-CUT
CELL DESIGN
(10 Bus Bar)**



**COST-EFFICIENT
ENERGY SOLUTION**

Okaya Solar Panels are engineered to deliver exceptional performance and long-term savings, whether for homes, commercial rooftops, or ground-mounted installations.

With advanced Mono PERC Bifacial technology, our panels achieve up to 21.3% module efficiency, generating more power even in diffused light while maximising bifacial gain.

CERTIFICATIONS:

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Certified Company
IS 14286, IEC 61215, 61730, 62804, 61701, 62716, UL 61730, BIS



MONO PERC BIFACIAL | 550Wp (DCR/Non-DCR)

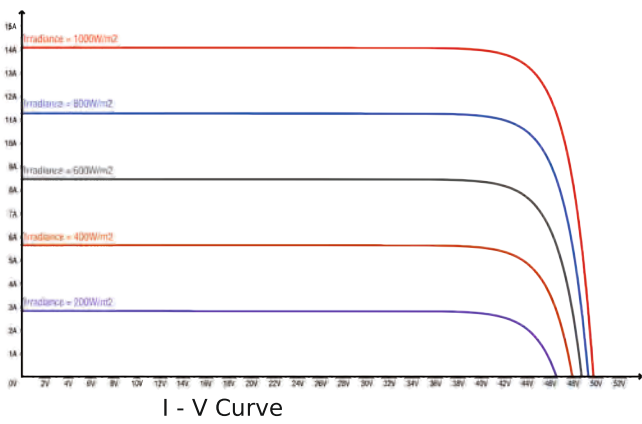
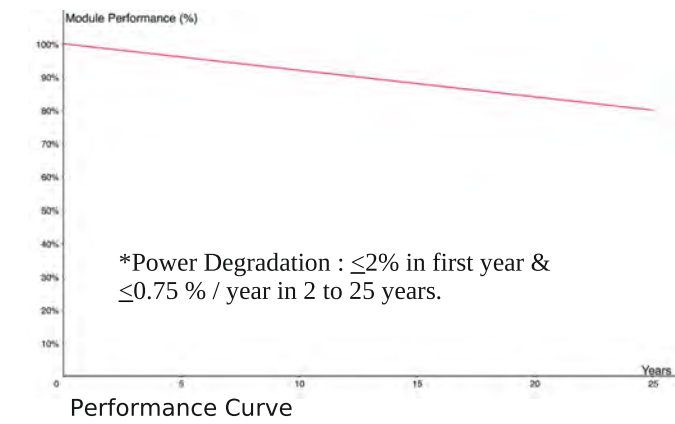
SPECIFICATION

Model Number: OPI44MHB550W (ALP24L550WM-T)	
SPECIFICATION	VALUE
Rated Capacity (Pmax)	550 Wp
Max. Power Voltage (Vmp)	41.91 V
Open Circuit Voltage (Voc) (±5%)	49.88 V
Max. Power Current (Imp)	13.13 A
Short Circuit Current (Isc) (±5%)	13.99 A
Module Efficiency	21.29%
Max. System Voltage	1500 V DC
Series Fuse Rating	25 A

ELECTRICAL PARAMETERS

ELECTRICAL PARAMETERS @550W		Pmax (W)	Vmp (V)	Imp (A)	Voc (V)	Isc (A)	Module Efficiency (%)
Front @STC		550	41.91	13.13	49.88	13.99	21.29
Bi-Facial Gain @STC	5%	577.5	41.91	13.78	49.88	14.68	22.35
	10%	605	41.91	14.44	49.88	15.38	23.42
	20%	660	41.91	15.75	49.88	16.78	25.54
	30%	715	41.91	17.06	49.88	18.18	27.67

- Bifacial gains depends on the power plant design & location of installation site
- Bifaciality Factor (%) : 70 ± 10
- Measuring Tolerance: 33%



THERMAL CHARACTERISTICS & OPERATING CONDITIONS

NOCT	: 45 °C ± 2 °C
Coefficient of Power (Pmax)	: -0.35%/ °C
Coefficient of Voltage (Voc)	: -0.27%/ °C
Coefficient of Current (Isc)	: 0.045%/ °C
Temperature Range	: -40 °C to +85 °C

PACKAGING CONFIGURATION

Container Size	: 40' HC
Modules/Pallet	: 31 Pieces
Modules/Container	: 620 Pieces (20 Pallets)

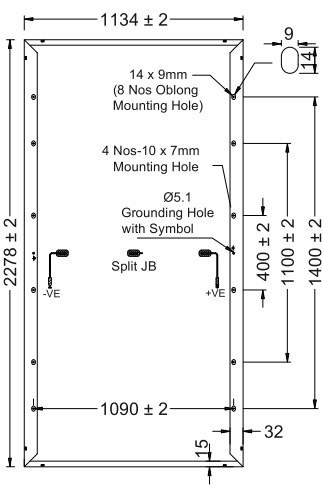
WARRANTY

PRODUCT WARRANTY : 12 YEARS

PERFORMANCE WARRANTY: 80% at 30 Years

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H):	2278 mm X 1134 mm X 35 mm
Weight	: 28.5 Kg
Junction Box	: IP 68, Split Junction Box with 3 Bypass Diodes
Cable & Connectors	: 4.0mm2 Solar Cable, 300mm, MC4 Compatible/Connectors
Application Class	: Class A (Safety Class II)
Superstrate	: 3.2mm High Transmission, Low Iron, ARC Tempered Glass
Cell Technology	: Mono PERC Crystalline 182x91mm - MBB 144 Cells
Cell Encapsulation	: EVA
Substrate	: Transparent Backsheet
Frame	: Silver Anodized Aluminium
Mechanical Load Test	: 5400 Pa (Snow load), 2400 Pa (Wind load)
Max. Series Fuse Rating	: 25 A



CERTIFICATIONS: ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Certified Company
IS 14286, IEC 61215, 61730, 62804, 61701, 62716, UL 61730, BIS

MPPT OFF-GRID SOLAR PCUs

SOLAR PCU
1KVA – 15KVA (12V–240V)



DiM

DUAL INTERLEAVED MPPT

High-efficiency MPPT that extracts maximum solar energy, ensuring higher savings and reliable performance

KEY FEATURES



**EXTRA GENERATION
VS PWM**



SMART RTC



**HJT & TOPCON
COMPATIBLE**



TRUE SINEWAVE

Okaya MPPT Off-Grid PCUs are perfect for anyone who wants to get maximum energy from their solar system. With smart MPPT technology, they charge your batteries faster and more efficiently—even in low light—so you enjoy dependable backup with bigger savings.

- Up to 98% efficiency with DiM Technology
- Faster battery charging for longer backup
- Works great in cloudy or low-light conditions
- Easy to install, reliable & durable



PRODUCT SKUs#

MODEL NUMBER		SOLAR PCU 1050VA-12V MPPT	SOLAR PCU 2.2KVA-24V MPPT	SOLAR PCU 3.5KVA-48V MPPT
Capacity		1050VA	2200VA	3.5KVA
Nominal Battery Voltage		12 VDC	24 VDC	48 VDC
AC MAINS MODE				
I/P VOLTAGE RANGE (Normal Mode)		90V to 290V ± 10 VAC		100V to 290V ± 10 VAC
I/P VOLTAGE RANGE (UPS Mode)		180V to 270V ± 10 VAC		
Change Over Time Maximum (UPS Mode)		= 10 mSec		
Change Over Time Maximum (Normal Mode)		= 20 mSec		
Charging Current HC (Default)		18±1 A	20±1 A	20±1A
Boost Charging Voltage Per Battery		Tubular Battery : 14.4 ± 0.2 VDC (Default)		
		SMF Battery : 13.8 ± 0.2 VDC		
Float Charging Voltage Per Battery		13.7 ± 0.2 VDC (Default)		
Battery Quantity 12V 100Ah-200Ah		1	2	4
BATTERY BACKUP MODE				
Output Wave Shape		Pure Sine Wave		
Output Voltage @ No Load		225V ± 7 VAC		230V ± 7 VAC
Output Frequency		50Hz ± 1 Hz		
Battery Low Alarm (VDC) per Battery (Default)		10.8 ± 0.2 VDC		
Battery Low Cut (VDC) per Battery (Default)		10.6 ± 0.2 VDC		
SOLAR CHARGE CONTROLLER				
Solar Charge Controller Type		MPPT Type		
Maximum PV (Wp) Power		940-1120W	2000-2550W	3540W
Maximum PV Open Circuit Voltage Range		32-60V	44-110V	84-110V
Maximum PV Input Current		30A	30A	40A
Maximum PV Output Current		75A	83.5A	70A
Vmpp Range		25V-50V	36V-88V	68V-88V
Protection Class		IP20 (Indoor Use)		
Alarms	Inverter ON (BACKUP Mode)	0.5 second beep in every 2 seconds -5 Times		
	UPS Mode ON and Mains Voltage out of range from UPS Mode	0.5 second beep in every 2 Minutes		
LCD Display		Mains On, Battery Voltage, Solar Current on Load, Solar Current on Battery, Time, Solar available, Solar parameter (special menu), Output Load in %, Battery Charging/ Discharging (Bar graph), Solar KWH Used, Solar Status, Output Voltage.		
Protections Show on Display		Battery Low, Overload, Over Temperature, O/P Short Circuit, Mains MCB/Fuse Trip, PV Reverse		
ENVIRONMENT				
Operating Temperature		0°C to 45°C		

*As a process of continuous product improvement, the specifications are subjected to change without notice.

PRODUCT SKUs#

MODEL NUMBER		SOLAR PCU 5.4KVA-48V MPPT	SOLAR PCU 7.5KVA-96V MPPT	SOLAR PCU 10KVA-120V MPPT
Capacity		5350VA	7.5KVA	10KVA
Nominal Battery Voltage		48 VDC	96 VDC	120 VDC
AC MAINS MODE				
I/P VOLTAGE RANGE (Normal Mode)		100V to 290V ± 10 VAC		100V to 280V ± 10 VAC
I/P VOLTAGE RANGE (UPS Mode)		180V to 270V ± 10 VAC		180V to 260V ± 10 VAC
Change Over Time Maximum (UPS Mode)		= 10 mSec		= 20 mSec
Change Over Time Maximum (Normal Mode)		= 20 mSec		= 40 mSec
Charging Current HC (Default)		24±1A	16±1A	20±1A
Boost Charging Voltage Per Battery		Tubular Battery : 14.4 ± 0.2 VDC (Default)		
		SMF Battery : 13.8 ± 0.2 VDC		
Float Charging Voltage Per Battery		13.7 ± 0.2 VDC (Default)		
Battery Quantity 12V 100Ah-200Ah		4	8	10
BATTERY BACKUP MODE				
Output Wave Shape		Pure Sine Wave		
Output Voltage @ No Load		230V ± 7 VAC		
Output Frequency		50Hz ± 1 Hz		
Battery Low Alarm (VDC) per Battery (Default)		10.8 ± 0.2 VDC		10.6 ± 0.2 VDC
Battery Low Cut (VDC) per Battery (Default)		10.6 ± 0.2 VDC		10.4 ± 0.2 VDC
SOLAR CHARGE CONTROLLER				
Solar Charge Controller Type		MPPT Type		
Maximum PV (Wp) Power		4900-5360	7900-8650	9850-11550
Maximum PV Open Circuit Voltage Range		84-195V	168-400V	210-400V
Maximum PV Input Current		40A	30A	40A
Maximum PV Output Current		105A	84A	83.5A
Vmpp Range		68V-150V	136V-340V	170V-340V
Protection Class		IP20 (Indoor Use)		
Alarms	Inverter ON (BACKUP Mode)	0.5 second beep in every 2 seconds -5 Times		
	UPS Mode ON and Mains Voltage out of range from UPS Mode	0.5 second beep in every 2 Minutes		
LCD Display		Mains On, Battery Voltage, Solar Current on Load, Solar Current on Battery, Time, Solar available, Solar parameter (special menu), Output Load in %, Battery Charging/ Discharging (Bar graph), Solar KWH Used, Solar Status, Output Voltage.		
Protections Show on Display		Battery Low, Overload, Over Temperature, O/P Short Circuit, Mains MCB/Fuse Trip, PV Reverse		
ENVIRONMENT				
Operating Temperature		0°C to 45°C		

*As a process of continuous product improvement, the specifications are subjected to change without notice.

PRODUCT SKUs[#]

MODEL NUMBER		SOLAR PCU 15KVA-240V MPPT
Capacity		15KVA
INVERTER MODE		
No Load Battery Current (NLC)		2.0 ± 0.2A
O/P Voltage at No Load	N-R	230±3%
	N-Y	230±3%
	N-B	230±3%
O/P Voltage at Full Load	N-R	230±3%
	N-Y	230±3%
	N-B	230±3%
Full Load O/P Current (AC)	N-R	17.5±0.5 Amp
	N-Y	17.5±0.5 Amp
	N-B	17.5±0.5 Amp
Overload Retry		6 Times
Overload Limit Each Phase on Load	105%	- 105 sec.
	125%	- 36 sec.
	150%	- 22 sec.
	200%	- 15 Sec.
Output Frequency (Inverter Mode)	N-R	50.0±1Hz
	N-Y	50.0±1Hz
	N-B	50.0±1Hz
MAINS MODE		
Mains Low Cut	N-R	155+/-10V
	N-Y	155+/-10V
	N-B	155+/-10V
Recovery	N-R	165+/-10V
	N-Y	165+/-10V
	N-B	165+/-10V
Mains High Cut	N-R	280+/-10V
	N-Y	280+/-10V
	N-B	280+/-10V
Recovery	N-R	270+/-10V
	N-Y	270+/-10V
	N-B	270+/-10V
Overload Indication	105-150%	Buzzer beep after every 30sec for 5sec
	>150%	Continuous Buzzer beep
CHANGE OVER TIME		
Mains to Inverter / Inverter to Mains		<80ms / <10ms
Batt Low Buzzer (V/Batt)		10.8V +/-0.2V
Short Circuit, Retry		No Retry
Normal Charging Current (Default)		10+/-2A
Boost Charging Voltage +/- 0.2V/Batt		144 +/- 0.2V/Batt.
Trickle Charging Voltage +/- 0.2V/Batt		13.6+/-0.2V/Batt
SOLAR CHARGER CONTROLLER		
Technology		DSP based intelligent battery charging and Charging Sharing with Mains
Maximum PV (Wp) Power		14750-16500
Maximum PV Open Circuit Voltage Range		420-550V
Maximum PV Input Current		40A
Maximum PV Output Current		63A
Vmpp Range		340V-440V
Solar Battery Charging Current (Settable)		40 Amps (Default)
Solar Battery Low Cut Voltage (Settable)		11.5V (Default)
PV Reverse Polarity & Reverse Current flow to PV Protection		Available
BATTERY		
Supporting Battery Type		Tubular/SMF
Battery Quantity 12V 100-220Ah		20
ENVIRONMENT		
Operating Temperature		0°C to 45°C
Protection Class		IP20 (In-door Use)

*As a process of continuous product improvement, the specifications are subjected to change without notice.

PWM OFF-GRID SOLAR PCUs

**SOLAR PCU
925VA – 5000VA**



TWIN Charge

Never wait for Power with the
Fully Hybrid charging (Grid+Solar),
ensuring backup is always ready

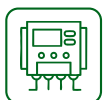
KEY FEATURES



SMART RTC



**GRID POWER
SAVER**



**HIGH-RATED
CHARGE CONTROLLER**



TRUE SINEWAVE

Smart Solar Backup on a Budget

Okaya PWM Off-Grid PCUs are an affordable way to start your solar journey. Ideal for small homes and businesses, they keep your power running smoothly with simple operation and flexible charging.

- Cost-effective solution for everyday solar needs
- Twin Charge Technology (Solar + Grid)
- Compact, easy to install & maintain
- Dependable output with low maintenance



PRODUCT SKUs[#]

MODEL NUMBER		SOLAR PCU 925VA-12V	SOLAR PCU 1450VA-12V
Capacity		925VA	1450VA
Nominal Battery Voltage		12V DC	
BATTERY MODE			
No Load Current @Switch On		≤ 1.8A	≤ 2.0A
Output voltage		225 ± 7V AC	
Output frequency		50Hz ± 1Hz	
Output waveform		Pure Sinewave	
Battery Low Alarm	if load >60% & <100%	11.2 ± 0.2V DC	
	If load <60%	10.9 ± 0.2V DC	
Battery Low cut		10.7 ± 0.2V DC	
Change over time in UPS mode		<10 msec	
Change over time in Normal mode		<20 msec	
AC MAINS MODE			
Normal Mode Low cut		90 ± 10V AC	
Normal Mode Low cut Recovery		100 ± 10V AC	
Normal Mode High cut		290 ± 10V AC	
Normal Mode High cut Recovery		280 ± 10V AC	
UPS Mode Low cut		180 ± 10V AC	
UPS Mode Low cut Recovery		190 ± 10V AC	
UPS Mode High cut		270 ± 10V AC	
UPS Mode High cut Recovery		260 ± 10V AC	
Input Frequency Range	Normal Mode	50 ± 8Hz	
	UPS Mode	50 ± 5Hz	
Supporting Battery Type		Tubular/SMF	
Battery quantity 12V 50Ah-220Ah		1	
Boost charging voltage	Tubular Battery	14.4V ± 0.2V DC	
	SMF Battery	13.8V ± 0.2V DC	
Float charging voltage	Tubular Battery	13.7V ± 0.2V DC	
	SMF Battery	13.4V ± 0.2V DC	
Battery charging current (HC)		24A ± 1A	26A ± 1A
PROTECTIONS			
Overload in Backup Mode		Yes	
Short Circuit in Backup Mode		Yes	
Short Circuit in Mains Mode		Mains Fuse will Trip	
Over Temperature		Yes (95°C ± 5°C)	
Reverse Battery		DC Fuse blown	
SOLAR CHARGE CONTROLLER			
Max Panel wattage can be connected		900W	
Maximum VOC of Solar Panel Range		18-25V	
Max PV Current		50A	
Reverse current flow to PV Protection		Yes	
DISPLAY AND ALARMS			
Buzzer	Beep	Overload, Low Battery, Mains Fuse Trip, Mains/Grid Fail, Inverter is in UPS Mode & Mains >100V	
	Continuous	“Short Circuit, Over temperature, battery high, if solar input Voltage or current is beyond the specification”	
ENVIRONMENT			
Operating Temperature		-10°C to 45°C	
Protection Class		IP20 (In-door use)	

Note: Solar LED Brightness is High with Maximum Solar utilization and Low with minimal Solar use.
*As a process of continuous product improvement, the specifications are subjected to change without notice.

PRODUCT SKUs[#]

MODEL NUMBER		SOLAR PCU 2200VA-24V	SOLAR PCU 3KVA-24V	SOLAR PCU 5KVA-48V
Capacity		2200VA	3000VA	5350VA
Nominal Battery Voltage		24V DC		48V DC
BATTERY BACKUP MODE				
Output Voltage @ No LOAD		225V ± 7V AC		
Output Wave Shape		Pure Sine Wave		
Output Frequency		50 ± 1 Hz		
Battery Low Alarm (Vdc) Per Battery (Default)		10.8 ± 0.2V DC		
Battery Low Cut (Vdc) Per Battery (Default)		10.6 ± 0.2V DC		
Change Over Time in UPS Mode		≤ 10 msec		≤ 10 msec
Change Over Time in Normal Mode		≤ 20 msec		≤ 40 msec
AC MAINS MODE				
UPS Mode Low Cut With Phase Match			180 ± 10V	
UPS Mode Low Cut Recovery With Phase Match			190 ± 10V	
LIPS Mode High Cut With Phase Match			270 ± 10V	
UPS Mode High Cut Recovery With Phase Match			260 ± 10V	
Normal Mode Low Cut With Phase Match			90± 10V	
Normal Mode Low Cut Recovery With Phase Match			100 ± 10V	
Normal Mode High Cut With Phase Match			290 ± 10V	
Normal Mode High Cut Recovery With Phase Match			280 ± 10V	
Supporting Battery Type			Tubular/SMF	
Battery Quantity 12V 100-220Ah			2	
HC Charging Current @ 220V AC		20A ± 1A	24A ± 1A	24A ± 1A
Boost Charging Voltage Per Battery	Tubular Battery	14.4 ± 0.2V DC (Default)		
	SMF Battery	13.8 ± 0.2V DC		
Float Charging Voltage Per Battery		13.7 ± 0.2V DC (Default)		
SOLAR CHARGE CONTROLLER				
Solar Charge Controller Type		PWM Type		
Solar Charge Controller Rating		50Amp		50Amp
Solar Battery Charging Current Default		40Amp (05-50Amp Settable)		
Max Panel wattage can be connected		2100W		5900W
Maximum VOC of Solar Panel Range		34-50V		72-100V
Vmpp Range		30-42V		60-84V
Protection Class		IP20 (In-door Use)		
LCD DISPLAY		Mains ON, Battery Voltage, Solar Current on Load, Solar Current on Battery, Time, Solar Available, Output Load %, Solar KWh used, Output Voltage		
Protection Shows on Display		Battery Low, Overload, Over Temperature, O/P Short Circuit, Mains/ Fuse Trip, PV Reverse		
Alarms	Inverter ON (BACKUP Mode)	0.5 second beep in every 2 seconds - 5 Times		
	UPS Mode ON Mains Voltage out of range from UPS Mode	0.5 second beep in every 2 Minutes		

*As a process of continuous product improvement, the specifications are subjected to change without notice.

SOLAR TUBULAR BATTERIES

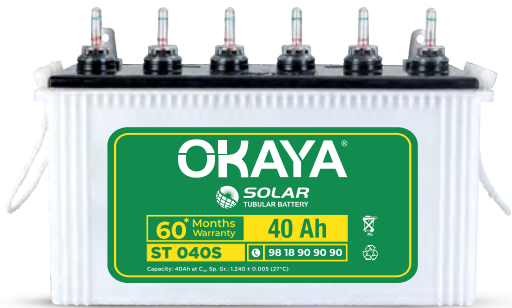


AEMS

ADVANCED ELECTROLYTE MANAGEMENT SYSTEM

- Less frequent water topping
- No spillage or corrosion around terminals
- Easier maintenance with clear visual indicators
- Enhanced battery health and performance

Okaya Solar Tubular Batteries store your solar energy efficiently, so you have reliable power when you need it most. With advanced technology like the AEMS, they're designed for longer life, quick charging, and minimal maintenance.



CERTIFICATIONS:
IS 16270 & IS 13369

Available Range:
40AH to 200AH

Up to
60 Months Warranty

FEATURES

ADVANCED TUBULAR PLATES
Handle deep discharges and recover quickly

LOW ANTIMONY ALLOY & PRESSURE DIE CAST SPINES
Better corrosion resistance, ultra-low maintenance

RUGGED PPCP CONTAINERS
Heat-sealed and spill-proof for extra safety

HIGHER CYCLE LIFE
Designed for 5-7 years with low self-discharge

WORKS IN TOUGH CONDITIONS
Wide temperature range, sturdy terminals

USER-FRIENDLY
Factory charged, electrolyte level indicator in each cell

PRODUCT SKUs#

MODEL NAME	CAPACITY (Ah @C ₁₀)	TOTAL WARRANTY IN MONTHS	VOLT	Dimension (±2mm)			Net Weight (±3 %) in Kg
				LENGTH	WIDTH	HEIGHT	
ST 040 H	40	36	12	407	176	245	22
ST 040 S	40	60	12	407	176	245	23.5
ST 075 H	75	36	12	532	221	284	37
ST 075 S	75	60	12	532	221	284	38.5
ST 100 H	100	36	12	532	221	284	39
ST 100 S (TT)	100	60	12	508	198	404	54.8
ST 120 H	120	36	12	520	279	283	53
ST 120 S (TT)	120	60	12	508	198	404	56.8
ST 150 H	150	36	12	508	198	404	60.8
ST 150 S (TT)	150	60	12	508	198	404	61.8
ST 200 H	200	36	12	508	198	404	66.8
ST 200 S (TT)	200	60	12	508	198	404	68.3

^For details, please refer the battery warranty card
TT - Tall Tubular

#Subject to change without prior intimation

WHY CHOOSE OKAYA SOLAR?

OVER 35 YEARS OF TRUST IN POWER BACKUP

PAN-INDIA DEALER AND SERVICE NETWORK

REAL-WORLD TESTED PERFORMANCE

GOVERNMENT COMPLIANT &
CERTIFIED PRODUCTS

CUSTOMISED SOLUTIONS FOR HOMES
AND BUSINESSES

EASY CONSUMER FINANCE

OKAYA POWER PRIVATE LIMITED

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