OKAYA®

SOLAR

POWER YOUR HAPPINESS

PRODUCT CATALOGUE 2025

OKY/MKTG/SOLAR-CATALOGUE/1025

ABOUT OKAYA SOLAR

Powering the Nation with Trust – Now into Solar

With a legacy of over 20 years, Okaya has been a symbol of trust and quality, offering a diverse range of power storage solutions across India. Our product portfolio includes **Home and Hi-capacity UPS/inverters**, **Tubular inverter batteries**, **Solar tubular batteries** and **E-Rickshaw batteries**, catering to both residential and commercial energy needs.

Now, Okaya is proud to expand into the world of solar energy — bringing the same reliability and performance to a **New range of Solar solutions**.

From high-efficiency **Solar panels** to advanced **On-grid, Hybrid** and **Off-grid inverters**, Okaya Solar is engineered to deliver long-term savings, superior energy output, and seamless integration for rooftops, businesses and institutions.

OUR COMMITMENT

- ✓ BIS-certified inverters and ALMM-listed solar panels
- ✓ Tailored solutions for homes, commercial buildings and institutions
- ✓ Nationwide network of partners and support centers
- ✓ Focus on clean, sustainable and future-ready energy systems

WIDE RANGE FOR VARIED CONSUMER NEEDS

ON-GRID SOLAR SOLUTION

RESIDENTIAL ROOFTOP | SMEs | INSTITUTION | OFFICE

Reduce electricity bills by feeding surplus power to the grid

HYBRID SOLAR SOLUTION

RURAL OR SEMI-URBAN HOME | INSTITUTION | OFFICE

Reliable power backup

OFF-GRID SOLAR SOLUTION

HIGH-END HOME | FARM HOUSE | PETROL PUMP | HEALTH CENTRE | RURAL BANK | COLD STORAGE

Power-heavy operations with critical load requirements & backup

OKAYA® | SOLAR

GRID-TIED INVERTERS

SOLAR GTI 1-Phase
3kW - 5kW

10 YEARS WARRANTY

FREE! WIFI DONGLE

SOLAR ON-GRID INVERTERS

KEY FEATURES

- UP TO 98% EFFICIENCY
- UP TO 120% DC INPUT OVERLOAD
- HIGH RATED MPPT TRACKER
- IP65 RATED PROTECTION

DIO-X 1Ph Series

Our Single-Phase Ongrid Solar Inverters are designed to seamlessly integrate with the latest 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:
IS 16221 (PART 2):2015/IEC 62109-2 :2011 & IS 16169 :2014/IEC 62116 :2008

मानकः पथप्रदर्शकः
Bureau of Indian Standards
BIS CERTIFIED

PRODUCT SKUs#

DIO-X 1Ph Series

MODEL NUMBER	SOLAR GTI 3KW P1	SOLAR GTI 3.4KW P1	SOLAR GTI 5KW P1
INPUT (DC)			
Max. Peak DC Input Power (KW)	**3.6kW**	**4.08kW**	**5.175kW**
Max. DC I/p (V dc)	550V		
Max. MPPT I/p Current (A)	22A		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		1 (Max 9 PV in series)
Strings per MPPT Trackers	1		
OUTPUT (AC)			
Rated Output Power (kW)	3	3.4	5
Rated Grid Voltage (V)	230V (140V - 300V)		
Nominal Grid Freq.(Hz)	50Hz / 60Hz (47-52Hz) / (57-62Hz)		
Max. Output Current AC (A)	13	14.7	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		

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

OKAYA | SOLAR

GRID-TIED INVERTERS

SOLAR GTI 1-Phase
3kW - 5kW

NEW

10 YEARS WARRANTY

FREE! WIFI DONGLE

SOLAR ON-GRID INVERTERS

KEY FEATURES

- UP TO 99% MPPT EFFICIENCY
- UP TO 150% DC INPUT OVERLOAD
- HIGH RATED MPPT TRACKER
- IP65 RATED PROTECTION

मानक: पथप्रदर्शक:
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DIO-XL 1Ph Series

Rugged, Reliable & Ready for extreme temperature. Sleek, high-performing, and backed by a best-in-class warranty, our Single-Phase Ongrid Solar Inverters set a new benchmark in solar energy solutions. Built for superior efficiency and long-term durability, they make your transition to solar smarter, smoother, and more reliable.

Our latest models are designed to integrate effortlessly with advanced solar panel technologies including TOPCon, HJT, and Mono PERC, delivering optimal energy conversion and dependable performance for years to come.

- Power export limit feature ensures controlled energy dispatch to the grid
- Volt-Shield MOV Protection safeguards against sudden grid voltage surges
- Innovative cooling architecture maintains inverter temperature up to 5°C below ambient for peak efficiency

PRODUCT SKUs#

DIO-XL 1Ph Series

MODEL NUMBER	SOLAR GTI T3K-1P	SOLAR GTI T5K-1P
DC SIDE / INPUT PARAMETERS		
Max DC power (W)	4500W	7500W
Max DC voltage (Vdc)	550	550
Min System start/Shut down voltage (Vdc)	75/100	75/100
MPPT voltage range(Vdc)	100-450	100-500
Max. input current (A)	18A	30A
Max.input short circuit per MPPT	25A	40A
Number of MPP trackers	1	1
Strings per MPP tracker	1	1
AC SIDE / OUTPUT PARAMETERS		
Nominal output power (W)	3000	5000
Maximum output power (W)	3300	5500
Nominal output voltage/range (V)	208, 220, 230, 240/180~270	
AC grid frequency/range (Hz)	50Hz,60Hz / 44Hz-55Hz; 54Hz-65Hz	
Maximum output current (A)	16	23
AC connection (with PE)	Single phase	Single phase
Current distortion(THDi)	<1.5%	<2.5%
Power factor	~1% (Adjustable from 0.8 leading to 0.8 lagging)	
EFFICIENCY		
Maximum conversion efficiency	97.50%	
European efficiency	97.20%	
MPPT efficiency	99.90%	
SAFETY AND PROTECTION		
AFCI	Yes	
DC reverse-polarity protection	Yes	
Anti-islanding / Overvoltage protection	Yes	
Short circuit protection	Yes	
Leakage current protection	Yes	
Grid monitoring / Ground fault monitoring	Yes	
DC/AC side SPD(thermally protected)	Yes	
GENERAL PARAMETERS		
Dimension (L/W/H)(mm)	315/345/108	382/339/119
Weight (kg)	5	8
Embedded DC Switch	Optional	
Night power consumption (W)	< 0.2	
Isolation type	Transformerless	
Protection degree	IP65 according to IEC60529	
Operation temperature (ºC)	-25°C - +60°C	
Cooling concept	Smart Cooling	
Operatiing Altitude (m)	<2000m without power derating	
Acoustic noise level (dB)	< 25	
Display	Graphic LCD	
Communication Interface	Standard WIFI; RS485 (optional)	
Warranty	10 Years	
Certificates and Approvals	CE-(EMC/LVD) : EN(IEC) 61000-1/-2/-3/; EN(IEC) 62109-1/-2	

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

OKAYA | SOLAR

GRID-TIED INVERTERS

SOLAR GTI 3-Phase
5kW - 30kW

10 YEARS WARRANTY

FREE! WIFI DONGLE

SOLAR ON-GRID INVERTERS

KEY FEATURES

- UP TO 98% EFFICIENCY
- UP TO 120% DC INPUT OVERLOAD
- HIGH RATED MPPT TRACKER
- IP65 RATED PROTECTION

DIO-X 3Ph Series

Powering the Future with Cutting-Edge Technology

3-Phase Ongrid Solar Inverters are designed to seamlessly integrate with the latest solar panel technologies, including TOPCon, HJT, and Mono PERC. Engineered for maximum efficiency and reliability, these inverters enhance energy conversion while ensuring 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:
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PRODUCT SKUs#

DIO-X 3Ph Series

MODEL NUMBER	SOLAR GTI 5KW P3	SOLAR GTI 8KW P3	SOLAR GTI 10KW P3	SOLAR GTI 15KW P3	SOLAR GTI 20KW P3
INPUT (DC)					
Max Peak DC Input Power (KW)	6KW	9.6KW	12KW	18KW	24KW
Max. DC I/p (V dc)	1000V				
Max. MPPT I/p current (A)	20A	13A/16A	13A/16A	26A	26A
MPPT Short Circuit Current (A)	26A	20A	20A	40A	40A
MPPT Tracking voltage (Vdc)	200-1000 Vdc	150-1000 Vdc	150-1000 Vdc	150-1000 Vdc	150-1000 Vdc
Min. Start voltage (V)	150 Vdc	150 Vdc	150 Vdc	150/180 Vdc	150/180 Vdc
Number of MPPT Tracker	1	2	2	2	2
Strings per MPPT Trackers	1	1	1	2	2
OUTPUT (AC)					
Rated output power (kW)	5	8	10	15	20
Rated Grid Voltage (V)	380V / 400V / 415V (300V - 500V)				
Nominal Grid Freq.(Hz)	50Hz / 60Hz				
Max. output Current AC (A)	7.2	11.56	14.5	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	Inbuilt	Inbuilt	Inbuilt	Optional	Optional
Surge Protection	MOV / SPD / Filters				
GENERAL DATA					
Dimensions (W*H*D) mm	425x351x160	425x351x160	425x351x160	425x351x200	425x351x200
Weight (Kg)	13.7Kg	13.7Kg	13.7Kg	20Kg	20Kg
Noise Emission (db)	<30dB				
Display	LED with LCD Display				
DC Connection Type	MC-4				
AC Connection Type	Plug in Connector / Wirecables			Plug in Connector	
Communication Interface	WiFi/ GPRS/ RS 485				
Cooling Method	Natural Convection/Smart Fan Cooling				
Operating ambient temperature range	-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				

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

OKAYA SOLAR

GRID-TIED INVERTERS

SOLAR GTI 3-Phase
5kW - 110kW

10 YEARS WARRANTY

SOLAR ON-GRID INVERTERS

KEY FEATURES

- UP TO 98% EFFICIENCY
- UP TO 150% DC INPUT OVERLOAD
- HIGH RATED MPPT TRACKER
- IP65 RATED PROTECTION

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DIO-XL 3Ph - Series

Empowering Tomorrow with Advanced Solar Technology

Experience the perfect blend of innovation, reliability, and performance with our Three Phase On-Grid Solar Inverters. Sleek, powerful, and backed by a best-in-class warranty, they redefine excellence in solar energy solutions. Built for superior efficiency and long-lasting durability, these inverters make your transition to solar power smarter, smoother, and more efficient.

Our latest range is designed to seamlessly integrate with advanced solar panel technologies including TOPCon, HJT, and Mono PERC ensuring optimal energy conversion and long-term reliability. Engineered for maximum efficiency, they form the cornerstone of a future-ready solar ecosystem.

- Automatic Voltage Stabilization – Power Without Disruption
- Wide Voltage Range & Low Startup Voltage – More Solar Hours Every Day
- >150% DC/AC Ratio – Ready for Future Applications

PRODUCT SKUs#

DIO-XL 3Ph Series

MODEL NUMBER	SOLAR GTI 5K-3P2M	SOLAR GTI 6K-3P2M	SOLAR GTI 8K-3P2M	SOLAR GTI 10K-3P2M
INPUT DC				
Recommended max. PV power	7.5 Kw	9KW	12 kW	15 kW
Max. input voltage	1100 V			
Rated voltage	600 V			
Start-up voltage	180 V			
MPPT voltage range	160-1000 V			
Max. input current	16 A / 16 A			
Max. short circuit current	20 A / 20 A			
MPPT number/Max. input strings number	2/2			
OUTPUT AC				
Rated output power	5 kW	6kW	8 kW	10 kW
Max. apparent output power	5.5 kVA	6.6 kVA	8.8 kVA	11 kVA
Max. output power	5.5 kW	6.6 kW	8.8 kVA	11 kVA
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	“7.6 A /7.2 A"	"9.1 A /8.7 A"	"12.2 A /11.5 A"	"15.2 A /14.4 A"
Max. output current	7.9 A	9.5 A	12.7 A	15.9 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)			
THDi	<2%			
DC injection current	<0.5% In			
EFFICIENCY				
Max. efficiency	98.30%	98.50%		
EU efficiency	97.70%	97.90%		
PROTECTION				
DC reverse-polarity protection	Yes			
Short circuit protection	Yes			
Output over current protection	Yes			
Surge protection	Yes			
Grid monitoring	Yes			
Anti-islanding protection	Yes			
Temperature protection	Yes			
Integrated AFCI (DC arc-fault circuit protection)	Yes			
Integrated DC switch	Yes			
GENERAL DATA				
Dimensions (W*H*D)	310*563*219 mm			
Weight	16.5 kg	17.6 kg		
Topology	Transformerless			
Self-consumption (night)	<1 W			
Operating ambient temperature range	-25°C - +60°C			
Relative humidity 0-100%	0-100%			
Ingress protection	IP66			
Noise emission (typical)	<30 dB(A)			
Cooling concept	Natural convection			
Max. operation altitude	4000 m			
Grid connection standard	IEC 61683, IEC 60068, IEC 61727, IEC 62116, EN 50530, IS 16169 / IS 16221(BIS)			
Safety/EMC standard	IEC 62109-1/-2, IEC 61000-6-1/-2/-3/-4			
FEATURES				
DC connection	MC4 connector			
AC connection	Quick connection plug			
Display LCD	LCD			
Communication	RS485, Optional: S3-WiFi-ST, S3-GRPS-ST			

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

PRODUCT SKUs#

DIO-XL 3Ph Series

MODEL NUMBER	SOLAR GTI 15K-3P3M	SOLAR GTI 17K-3P3M	SOLAR GTI 20K-3P4M
INPUT DC			
Recommended max. PV power	22.5 kW	25.5 kW	30kW
Max. input voltage	1100 V		
Rated voltage	600 V		
Start-up voltage	180 V		
MPPT voltage range	160-1000 V		
Max. input current	32 A / 32 A		
Max. short circuit current	40 A / 40 A		
MPPT number/Max. input strings number	2/4		
OUTPUT AC			
Rated output power	15 kW	17KW	20KW
Max. apparent output power	16.5 kVA	18.7 kVA	22kVA
Max. output power	16.5 kVA	18.7 kVA	22kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V		
Rated grid frequency	50 Hz / 60 Hz		
Rated grid output current	“22.8 A /21.7 A"	"25.8 A /24.6 A"	"30.4 A /28.9 A"
Max. output current	23.8 A	27 A	31.8
Power factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<2%		
DC injection current	<0.5% In		
EFFICIENCY			
Max. efficiency	98.60%	98.70%	
EU efficiency	98.00%	98.10%	
PROTECTION			
DC reverse-polarity protection	Yes		
Short circuit protection	Yes		
Output over current protection	Yes		
Surge protection	Yes		
Grid monitoring	Yes		
Anti-islanding protection	Yes		
Temperature protection	Yes		
Integrated AFCI (DC arc-fault circuit protection)	Yes		
Integrated DC switch	Yes		
GENERAL DATA			
Dimensions (W*H*D)	310*563*219 mm		
Weight	19.5 kg	21.1 kg	
Topology	Transformerless		
Self-consumption (night)	<1 W		
Operating ambient temperature range	-25°C - +60°C		
Relative humidity 0-100%	0-100%		
Ingress protection	IP66		
Noise emission (typical)	<60 dB(A)		
Cooling concept	Intelligent redundant fan-cooling		
Max. operation altitude	4000 m		
Grid connection standard	IEC 61683, IEC 60068, IEC 61727, IEC 62116, EN 50530, IS 16169 / IS 16221(BIS)		
Safety/EMC standard	IEC 62109-1/-2, IEC 61000-6-1/-2/-3/-4		
FEATURES			
DC connection	MC4 connector		
AC connection	Quick connection plug		
Display LCD	LCD		
Communication	RS485, Optional: S3-WiFi-ST, S3-GRPS-ST		

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

PRODUCT SKUs#

DIO-XL 3Ph Series

MODEL NUMBER	SOLAR GTI 25K-3P3M	SOLAR GTI 30K-3P3M	SOLAR GTI 40K-3P4M
INPUT DC			
Recommended max. PV power	37.5 kW	45 kW	60 kW
Max. input voltage	1100 V		
Rated voltage	600 V		
Start-up voltage	180 V		
MPPT voltage range	200 - 1000 V		
Max. input current	32 A / 32 A / 32 A		4 × 32 A
Max. short circuit current	40 A / 40 A / 40 A		4 × 40 A
MPPT number/Max. input strings number	3 / 6		4 / 8
OUTPUT AC			
Rated output power	25 kW	30 kW	40 kW
Max. apparent output power	27.5 kVA	33 kVA	44 kVA
Max. output power	27.5 kW	33 kW	44 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V		
Rated grid frequency	50 Hz / 60 Hz		
Rated grid output current	38.0 A / 36.1 A	45.6 A / 43.3 A	60.8 A / 57.7 A
Max. output current	41.8 A	50.2 A	66.9 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)		
THDi	< 3%		
DC injection current	< 0.5% In		
EFFICIENCY			
Max. efficiency	98.50%		98.70%
EU efficiency	98.10%		98.30%
PROTECTION			
DC reverse-polarity protection	Yes		
Short circuit protection	Yes		
Output over current protection	Yes		
Surge protection	DC Type II / AC Type II		
Grid monitoring	Yes		
Anti-islanding protection	Yes		
Temperature protection	Yes		
Strings monitoring	Yes		
I/V Curve scanning	Yes		
Integrated AFCI (DC arc-fault circuit protection)	Yes		
Integrated PID recovery	Optional		
Integrated DC switch	Yes		
GENERAL DATA			
Dimensions (W*H*D)	647 × 629 × 252 mm		
Weight	38.2 kg		42.1 kg
Topology	Transformerless		
Self-consumption (night)	<1 W		
Operating ambient temperature range	-25°C - +60°C		
Relative humidity 0-100%	0-100%		
Ingress protection	IP66		
Noise emission (typical)	≤ 60 dB(A)		
Cooling concept	Intelligent fan-cooling		
Max. operation altitude	4000 m		
Grid connection standard	IEC 61683, IEC 60068, IEC 61727, IEC 62116, EN 50530, IS 16169 / IS 16221(BIS)		
Safety/EMC standard	IEC 62109-1/-2, IEC 61000-6-1/-2/-3/-4		
FEATURES			
DC connection	MC4 connector		
AC connection	Screw type terminal block		
Display LCD	LCD		
Communication	RS485, Optional: S3-WiFi-ST, S3-GRPS-ST		

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

PRODUCT SKUs#

DIO-XL 3Ph Series

MODEL NUMBER	SOLAR GTI 50K-3P5M	SOLAR GTI 60K-3P6M
INPUT DC		
Recommended max. PV power	75 kW	90 Kw
Max. input voltage	1100 V	
Rated voltage	600 V	
Start-up voltage	195 V	
MPPT voltage range	180-1000 V	
Max. input current	5*32 A	6*32 A
Max. short circuit current	5*40 A	6*40 A
MPPT number/Max. input strings number	5/10	6/12
OUTPUT AC		
Rated output power	50 kW	60 kW
Max. apparent output power	55 kVA	66 kVA
Max. output power	55 kW	66 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	76.0 A / 72.2 A	91.2 A / 86.6 A
Max. output current	83.6 A	100.3 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)	
THDi	<3%	
DC injection current	<0.5% In	
EFFICIENCY		
Max. efficiency	98.70%	
EU efficiency	98.30%	
PROTECTION		
DC reverse-polarity protection	Yes	
Short circuit protection	Yes	
Output over current protection	Yes	
Surge protection	DC Type II / AC Type II	
Grid monitoring	Yes	
Anti-islanding protection	Yes	
Temperature protection	Yes	
Strings monitoring	Yes	
I/V Curve scanning	Yes	
Integrated AFCI (DC arc-fault circuit protection)	Yes	
Integrated PID recovery	Optional	
Integrated DC switch	Yes	
GENERAL DATA		
Dimensions (W*H*D)	691*578*338 mm	
Weight	54.5 kg	
Topology	Transformerless	
Self-consumption (night)	<1 W	
Operating ambient temperature range	-30°C - +60°C	
Relative humidity 0-100%	0-100%	
Ingress protection	IP66	
Noise emission (typical)	≤55 dB(A)	
Cooling concept	Intelligent redundant fan-cooling	
Max. operation altitude	4000 m	
Grid connection standard	IEC 61683, IEC 60068, IEC 61727, IEC 62116, EN 50530, IS 16169 / IS 16221(BIS)	
Safety/EMC standard	IEC 62109-1/-2, IEC 61000-6-1/-2/-3/-4	
FEATURES		
DC connection	MC4 connector	
AC connection OT terminal (max. 240 mm^2)	OT terminal (max. 70 mm^2)	
Display LCD	LCD, Capacitive touch buttons	
Communication	RS485, Optional: S3-WiFi-ST, S3-GRPS-ST	

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PRODUCT SKUs#

DIO-XL 3Ph Series

MODEL NUMBER	SOLAR GTI 80K-3P6M	SOLAR GTI 100K-3P10M	SOLAR GTI 110K-3P10M
INPUT DC			
Max. input voltage	1100 V		1100 V
Rated voltage	600 V		600 V
Start-up voltage	180 V		180 V
MPPT voltage range	160-1000 V		160 - 1000 V
Max. input current	40 A / 32 A / 40 A / 32 A / 40 A / 32 A / 40 A / 32 A		5 × (42 A / 36 A)
Max. short circuit current	6*50 A	8*50 A	10 × 50 A
MPPT number/Max. input strings number	6/12	8/16	10 / 20
OUTPUT AC			
Rated output power	80 kW	100 kW	110 kW
Max. apparent output power	88 kVA	110 kVA	121 kVA
Max. output power	88 kW	110 kW	121 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V		3/N/PE, 230 V / 400 V
Rated grid frequency	50 Hz / 60 Hz		50 Hz
Rated grid output current	121.6 A / 115.5 A	152.0 A / 144.3 A	158.8 A
Max. output current	133.7 A	167.1 A	174.6 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
DC injection current	<0.5% In		
EFFICIENCY			
Max. efficiency	98.50%		98.70%
EU efficiency	98.00%		98.30%
PROTECTION			
DC reverse-polarity protection	Yes		Yes
Short circuit protection	Yes		Yes
Output over current protection	Yes		Yes
Surge protection	DC Type II / AC Type II		DC Type II / AC Type II
Grid monitoring	Yes		Yes
Anti-islanding protection	Yes		Yes
Temperature protection	Yes		Yes
Strings monitoring	Yes		Yes
I/V Curve scanning	Yes		Yes
Integrated AFCI (DC arc-fault circuit protection)	Yes		Yes
Integrated PID recovery	Optional		Optional
Integrated DC switch	Yes		Yes
Integrated AC switch	Optional		Optional
Residual current detection	No		Yes
Insulation resistance monitoring	No		Yes
GENERAL DATA			
Dimensions (W*H*D)	1065*585*363 mm	1183*585*363 mm	1014 × 567 × 345 mm
Weight	79.5 kg	93 kg	96Kg
Topology	Transformerless		
Self-consumption (night)	<2 W		
Operating ambient temperature range	-30°C - +60°C		
Relative humidity 0-100%	0-100%		
Ingress protection	IP66		
Noise emission (typical)	≤65 dB(A)		
Cooling concept	Intelligent redundant fan-cooling		
Max. operation altitude	4000 m		
Grid connection standard	G99, IEC61727, EN50549-1/2		
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4		
FEATURES			
DC connection	MC4 connector		
AC connection OT terminal (max. 240 mm^2)	OT terminal (max. 240 mm^2)		
Display LCD	LCD		
Communication	RS485, Optional: S3-WiFi-ST, S3-GRPS-ST, PLC		

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

OKAYA SOLAR

HYBRID INVERTERS

SOLAR HYBRID 1-Phase 3kW - 5kW

5 YEARS WARRANTY

SOLAR HYBRID INVERTERS

KEY FEATURES

- UP TO 98% EFFICIENCY
- UP TO 200% DC INPUT OVERLOAD
- BATTERY COMPATIBILITY (Li/Lead)
- IP65 RATED PROTECTION

HYBRID SINGLE PHASE SOLAR INVERTERS
Empowering Tomorrow with Smart Energy Management

Versatile, intelligent, and built to endure, our Hybrid Solar Inverters combine the best of solar generation and energy storage in one powerful solution. With a sleek design and industry-leading warranty, they deliver seamless energy management for both homes and businesses.

Engineered to integrate effortlessly with advanced solar modules like TOPCon, HJT, and Mono PERC, these inverters maximize energy conversion while enabling smart load prioritization and flexible battery integration.

Experience the future of smart energy with inverters that adapt to your lifestyle, whether day or night, grid or no grid.

- Dual Backup Ports – Intelligent Load Management
- 200% Overload (10 sec) – Power Surge Protection
- 4 ms Automatic Switchover – Uninterrupted Power
- Battery Compatibility (Li/Lead) – Flexible Storage Options

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PRODUCT SKUs# | (Single-Phase)

MODEL NUMBER	SOLAR HYBRID 3K-1P	SOLAR HYBRID 5K-1P
INPUT DC (PV SIDE)		
Recommended max. PV array size	6 kW	10 kW
Max. usable PV input power	4.8 kW	8 kW
Max. input voltage	500 V	
Rated voltage	330 V	
Start-up voltage	90 V	
MPPT voltage range	90 - 435 V	
Max. input current	16 A / 16 A	
Max. short circuit current	20 A / 20 A	
MPPT number / Max. input strings number	2 / 2	
BATTERY		
Batterytype	Li-ion / Lead-acid	
Battery voltage range	40 - 60 V	
Max. charge / discharge power	3 kW	5 kW
Max. charge / discharge current	70 A	112 A
Communication	CAN / RS485	
OUTPUT AC (GRID SIDE)		
Rated output power	3 kW	5 kW
Max. apparent output power	3 kVA	5 kVA
Operation phase	L/N/PE	
Rated grid voltage	220 V / 230 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	13.7 A / 13.1 A	22.8 A / 21.8 A
Max. output current	13.7 A / 13.1 A	22.8 A / 21.8 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)	
THDi	< 2%	
INPUT AC (GRID SIDE)		
Input voltage range	187 - 253 V	
Max. input current	21 A	32 A
Frequency range	45 - 55 Hz / 55 - 65 Hz	
OUTPUT AC (BACK-UP)		
Rated output power	3 kW	5 kW
Max. apparent output power	2 times of rated power, 10 s	
Back-up switch time	< 4 ms	
Rated output voltage	L/N/PE, 220 V / 230 V	
Rated frequency	50 Hz / 60 Hz	
Rated output current	13.7 A / 13.1 A	22.8 A / 21.8 A
Max. AC passthrough current	35 A	40 A
THDv (@linear load)	< 2%	
EFFICIENCY		
Max. efficiency	96.2%	
EU efficiency	96.1%	
BAT charged by PV / AC max. efficiency	95.3% / 93.9%	
BAT discharged to AC max. efficiency	93.8%	
PROTECTION		
Ground fault monitoring	Yes	
Residual current detection	Yes	
DC reverse-polarity protection	Yes	
Integrated AFCI 2.0	Optional	
Protection class / Over voltage category	I / II (PV and BAT), III (MAINS and BACKUP and GEN)	
GENERAL DATA		
Dimensions (W*H*D)	335 × 560 × 227 mm	
Weight	21.6 kg	
Topology	High frequency isolation (for battery)	
Operating ambient temperature range	-40°C - +60°C	
Ingress protection	IP66	
Cooling concept	Natural cooling	
Max. operation altitude	3000 m	
Grid connection standard	NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA, NBR 16149, NBR 16150	
Safety / EMC standard	IEC/EN 62109-1/-2, EN 61000-6-2/-3	
FEATURES		
DC connection	MC4 plug (PV port) / Terminal Block (BAT port)	
AC connection	Terminal Block	
Display	7.0" LCD display & Bluetooth + APP	
Communication	RS485, CAN, Optional: S3-WiFi-ST, S3-GRPS-ST, LAN	

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

OKAYA | SOLAR

HYBRID INVERTERS

SOLAR HYBRID 3-Phase 8kW - 15kW

5 YEARS WARRANTY

SOLAR HYBRID INVERTERS

KEY FEATURES

- UP TO 98% EFFICIENCY
- UP TO 200% DC INPUT OVERLOAD
- HIGH RATED MPPT TRACKER
- IP65 RATED PROTECTION

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HYBRID THREE PHASE SOLAR INVERTERS
Empowering Tomorrow with Smart Energy Management

Versatile, intelligent, and built to endure Hybrid Three Phase Solar Inverters combine advanced solar generation and energy storage technologies to deliver high-performance power solutions. With a sleek design and an industry-leading warranty, they ensure seamless energy management for residential, commercial, and industrial applications alike.

Engineered to integrate effortlessly with the latest solar technologies such as TOPCon, HJT, and Mono PERC, these inverters maximize energy conversion efficiency while enabling smart load prioritization and battery integration.

Experience the next generation of solar innovation inverters that adapt to your power needs, day or night, grid or no grid.

- Multiple Inverters Microgrid – Scalable Power Architecture
- Dual Backup Ports – Intelligent Load Control
- Supports Unbalanced and Half-Wave Loads – Ultimate Installation Flexibility

PRODUCT SKUs# | (Three-Phase)

MODEL NUMBER	SOLAR HYBRID 8K-3P	SOLAR HYBRID 15K-3P
INPUT DC (PV SIDE)		
Max. usable PV input power	12.8 kW	24 kW
Max. input voltage	1000 V	
Rated voltage	550 V	
Start-up voltage	160 V	
MPPT voltage range	200 - 850 V	
Max. input current	20 A / 40 A	40 A / 40 A
Max. short circuit current	30 A / 50 A	50 A / 50 A
MPPT number / Max. input strings number	2 / 3	2 / 4
BATTERY		
Battery type	Li-ion / Lead-acid	
Battery voltage range	40 - 60 V	
Max. charge / discharge current	180 A	290 A
Communication	CAN / RS485	
OUTPUT AC (GRID SIDE)		
Rated output power	8 kW	15 kW
Max. apparent output power	8 kVA	15 kVA
Operation phase	3/N/PE	
Rated grid voltage	380 V / 400 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	12.2 A / 11.5 A	22.8 A / 21.7 A
Max. output current	12.2 A / 11.5 A	22.8 A / 21.7 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)	
THDi	< 3%	
INPUT AC (GRID SIDE)		
Input voltage range	323 - 460 V	
Max. input current	18.3 A / 17.3 A	34.2 A / 32.5 A
Frequency range	45 - 55 Hz / 55 - 65 Hz	
INPUT GENERATOR		
Max. input power	8 kW	15 kW
Max. input current	12.2 A	22.8 A
Rated input voltage	3/N/PE, 380 V / 400 V	
Rated input frequency	50 Hz / 60 Hz	
OUTPUT AC (BACK-UP)		
Rated output power	8 kW	15 kW
Max. apparent output power	2 times of rated power, 10 s	
Back-up switch time	< 10 ms	
Rated output voltage	3/N/PE, 380 V / 400 V	
Rated frequency	50 Hz / 60 Hz	
Rated output current	12.2 A / 11.5 A	22.8 A / 21.7 A
Max. continuous output current	12.2 A	22.8 A
Max. continuous AC passthrough current	50 A	
THDv (@linear load)	< 3%	
EFFICIENCY		
Max. efficiency	97.6%	
EU efficiency	97.0%	
PROTECTION		
Anti-islanding protection	Yes	
Insulation resistance monitoring	Yes	
Output over current protection	Yes	
Short circuit protection	Yes	
DC reverse-polarity protection	Yes	
Surge protection	Yes	
GENERAL DATA		
Dimensions (W**D)	430 × 660 × 305 mm	
Weight	42 kg	
Topology	Non-isolated	
Operating ambient temperature range	-40°C - +60°C	
Ingress protection	IP66	
Noise emission (typical)	< 65 dB(A)	
Cooling concept	Intelligent fan-cooling	
Max. operation altitude	4000 m	
Grid connection standard	NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, SriLanka, EN 50438L, Vietnam, PEA, MEA	
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3	
FEATURES		
DC connection	MC4 Quick connection plug (PV) & Screw terminal (Battery)	
AC connection	Screw terminal	
Display	7.0" LCD display & Bluetooth + APP	
Communication	CAN, RS485, Ethernet, Optional: S3-WiFi-ST, Cellular, LAN	

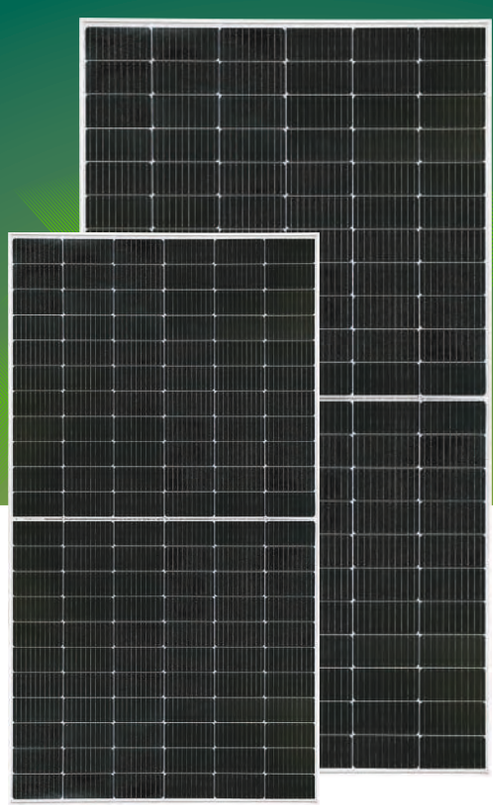
*Note: As a process of continuous product improvement, the specifications are subjected to change without prior notice.

OKAYA® | SOLAR

TOPCON BIFACIAL

144 HALF CUT CELL
560Wp - 590Wp

12 YEARS PRODUCT WARRANTY



SOLAR PANELS

KEY FEATURES

- SMBB TECHNOLOGY
- PID RESISTANCE
- HIGHER POWER OUTPUT
- AUTO BUSSING & SOLDERING TECHNOLOGY
- ENHANCED MECHANICAL LOAD

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

With advanced TOPCon Bifacial technology, our panels achieve up to 22.83% module efficiency, generating more power even in diffused light while maximizing bifacial gain.

IDEAL APPLICATIONS
Suitable for Residential, Utility, Commercial and Off-grid solutions.

CERTIFICATIONS:
IEC 62804 (PID), IEC 61701 (Salt Mist), IEC 62726 (Ammonia), IEC 62782 (DMLT), IEC 61853-2 (Panfile & IAM), LID, LETID, IEC 60068 (Sand & Dust), IEC 61215, CEC, CE, IEC 61730

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30 YEARS PERFORMANCE* WARRANTY

TOPCON BIFACIAL | 560Wp - 590Wp

Electrical Characteristics (STC)

MODULE TYPE	OP144TGG 560W	OP144TGG 565W	OP144TGG 570W	OP144TGG 575W	OP144TGG 580W	OP144TGG 585W	OP144TGG 590W
Maximum Power(Pmp)	560	565	570	575	580	585	590
Open Circuit Voltage (Voc)	51.18	51.22	51.26	51.30	51.34	51.38	51.42
Short Circuit Current (Isc)	13.40	13.50	13.61	13.71	13.83	13.93	14.04
Maximum Power Voltage (Vmp)	43.91	43.95	43.99	44.03	44.07	44.11	44.15
Maximum Power Current (Imp)	12.76	12.86	12.96	13.06	13.17	13.27	13.37
Module Efficiency%	21.66	21.86	22.05	22.24	22.44	22.63	22.83
Power Tolerance				0 to +5W			
Maximum System Voltage				1500V(UL & IEC)			
Maximum Series Fuse Rating				25 Amp			
*STC Irradiance 1000W/m², Module Temperature 25° C and AM 1.5						Measuring Tolerance: ± 3%	

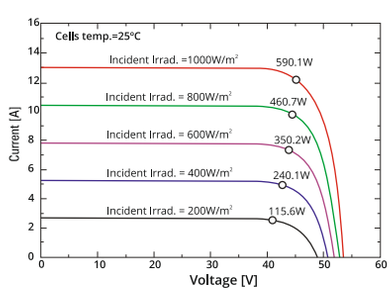
Electrical Characteristics (NOCT)

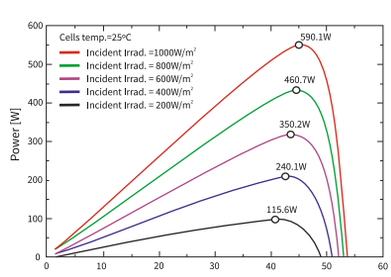
MODULE TYPE	OP144TGG 560W	OP144TGG 565W	OP144TGG 570W	OP144TGG 575W	OP144TGG 580W	OP144TGG 585W	OP144TGG 590W
Maximum Power(Pmp)	412	416	419	423	427	430	434
Open Circuit Voltage (Voc)	47.82	47.86	47.90	47.93	47.97	48.01	48.61
Short Circuit Current (Isc)	10.68	10.76	10.85	10.93	11.02	11.10	11.19
Maximum Power Voltage (Vmp)	40.74	40.78	40.82	40.86	40.89	40.93	40.97
Maximum Power Current (Imp)	10.11	10.19	10.27	10.35	10.43	10.51	10.59
Module Efficiency%	15.95	16.09	16.23	16.38	16.52	16.66	16.76
*NOCT- Irradiance 800W/m², AM1.5, Ambient Temperature 25° C and Wind Speed 1m/5						Measuring Tolerance: ± 3%	

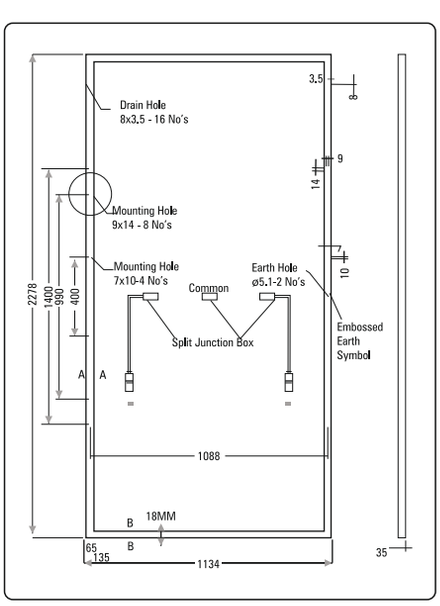
GAIN		OP144TGG 560W	OP144TGG 565W	OP144TGG 570W	OP144TGG 575W	OP144TGG 580W	OP144TGG 585W	OP144TGG 590W
10%	Power Pmp	616.0	621.5	627.0	632.5	638.0	643.5	649.0
20%	Power Pmp	672.0	678.0	684.0	690.0	696.0	702.0	708.0
30%	Power Pmp	728.0	734.5	741.0	747.5	754.0	760.5	767.0

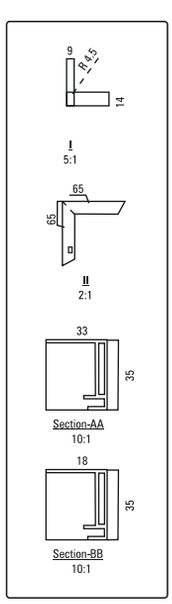
Temperature Characteristics

Pmax Temperature Coefficient Up to	-0.30%/ °C
Voc Temperature Coefficient Up to	-0.27%/ °C
Ise Temperature Coefficient	-0.04%/ °C
Operating Temperature	-40°C To +85°C
Nominal Operating Cell Temperature	42±3 °C









First Year Degradation < 1.0%
Year 2-30 Power Degradation <0.40%

Mechanical Specification

External Dimensions	2278(+2mm) x 1134 (+2mm) x 35(+1mm)
Weight	34 (+ 3%) Kg
Solar Cells	10BB/16BB, TOPCon - crystalline 182.2x183.75+/-1mm
Front Glass	2 mm, Semi Tempered, HS Glass
Rear Cover	2 mm, Semi Tempered, HS Glass
Frame	Anodized Aluminium Alloy (Silver/Black)
Junction Box	3 Split, IP 68 Rated
Connector	Mc4 Compatible
Mechanical Load	5400 Pa For Snow Load, 2400 Pa Wind Load
Fire Performance	TYPE 39 (UL 61730) Or Class C (IEC 61730)
Output Cable	4.0 mm2 | 400 mm Length

Frame Profile 35x33 (Long) & 35x18mm (Short)
Also Available 30x30(Long) & 30x15mm (Short)

OKAYA | SOLAR

TOPCON MONOFACIAL

36 HALF CUT CELL
180Wp

5 YEARS PRODUCT WARRANTY

SOLAR PANELS

KEY FEATURES

- PID RESISTANT
- LINEAR DEGRADATION
- OUTPUT EL-TESTED
- MINIMAL HOT-SPOT
- CONTROLLED GOOD FLOW
- HIGHER WEAK LIGHT PERFORMANCE
- HIGH YIELD & +VE TOLERANCE

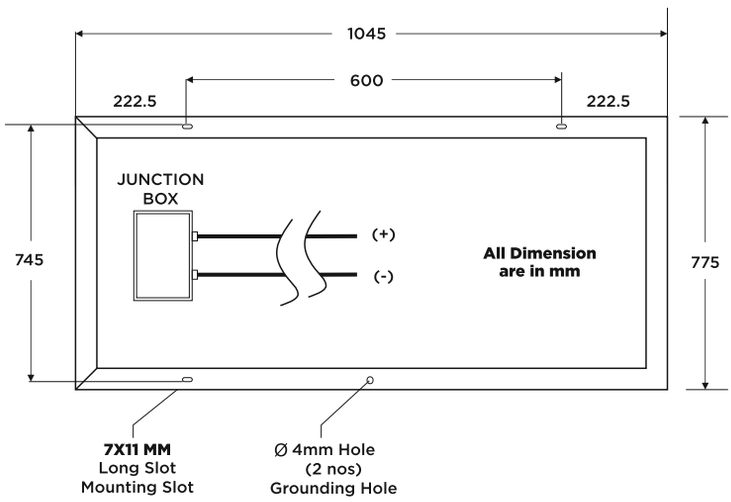
SMART COMPATIBILITY
Equipped with advanced TOPCon monofacial technology, this panel is fully compatible with 12V battery-connected off-grid inverters, Smart Management Units (SMUs), and solar charge controllers.

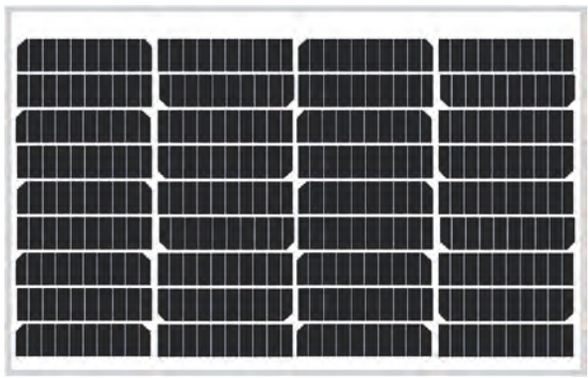
IDEAL APPLICATIONS
Small homeowners seeking efficient rooftop solar solutions, Small shops and local establishments aiming for energy independence, Mobility and outdoor setups such as RVs & camper vans

15 YEARS PERFORMANCE* WARRANTY

TOPCON MONOFACIAL | 180Wp

DIMENSIONS





HIGH POWER DENSITY
High conversion efficiency and more power output per square meter

ADVANCED GLASS
High-transmission glass that directs more light on the solar cells

DURABILITY
Certified for Salt Mist Corrosion and PID Resistance

PREMIUM QUALITY
Built to the most stringent quality standards in the industry.

TEMPERATURE CO-EFFICIENTS

NOCT	45±2	ºC
Pmp	-0.40	%/ºC
Isc	0.07	%/ºC
Voc	-0.36	%/ºC
Operating Temperature	40 to +85	ºC

SYSTEM DESIGN

- Series Fuse Rating (Recommended) : 15 A
- Maximum System Voltage : 1000 VDC
- Module Dimension : 1045x775x30 mm
- Module Weight : 8.70 kg (± 5%)

Product Warranty : 5 Years
Performance Warranty : 80% at 15 Years

TYPICAL ELECTRICAL CHARACTERISTICS AT STC

Mode/Type	(Pmax)	(Vmp)	(Imp)	(Voc)	(Isc)	(Eff)
180W	180.0	19.28	9.34	25.85	9.93	>21%

Electrical Parameters Tolerance: ± 3%

Compliance of Simulator readings with an accuracy of class A (±2%)

NOTE :

1. Due to constant product modifications OKAYA reserves the right to amend the above specifications without prior notice. The Electrical data given here is for reference purpose only
2. For handling & installation instructions, refer OKAYA Installation Manual.
3. Please read OKAYA warranty documents thoroughly. Please confirm your exact requirements with sales representative while placing your order. All dimensions have standard variation of 3 mm.

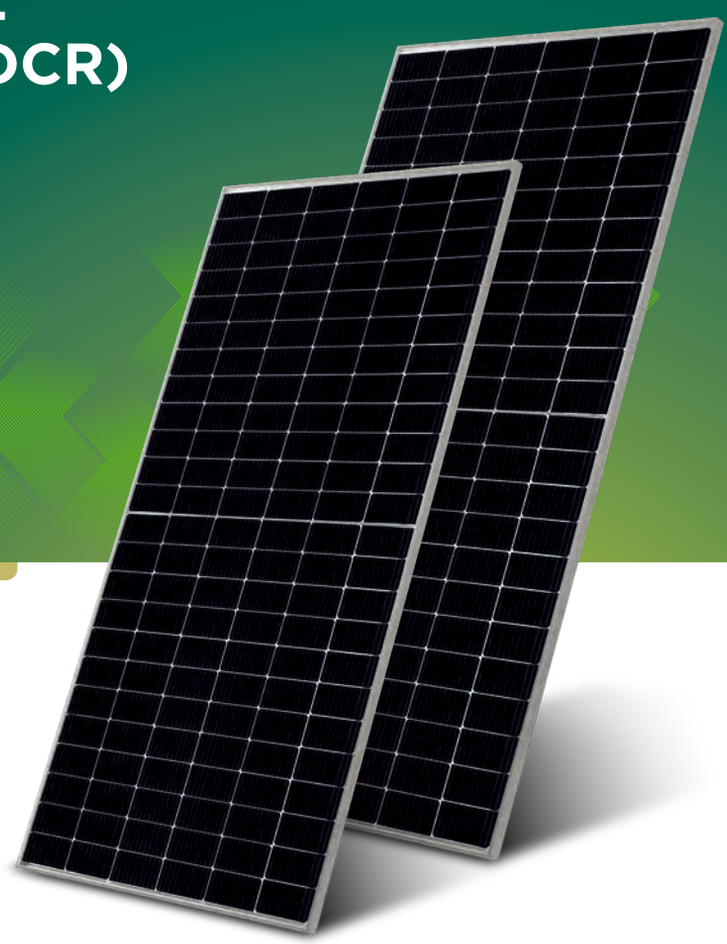
Outer Dimensions can have a variance of 3mm

OKAYA® | SOLAR

MONO PERC BIFACIAL

144 HALF CUT CELL
550Wp (DCR/Non-DCR)

12 YEARS PRODUCT WARRANTY



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 maximizing bifacial gain.

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30 YEARS PERFORMANCE* WARRANTY

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

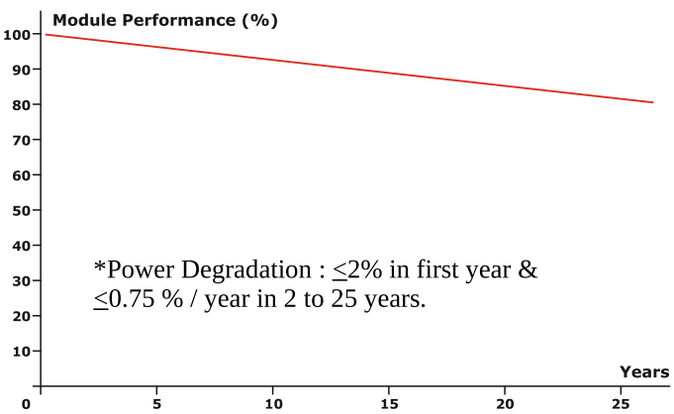
SPECIFICATION

Model Number: OP144MHB550W (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

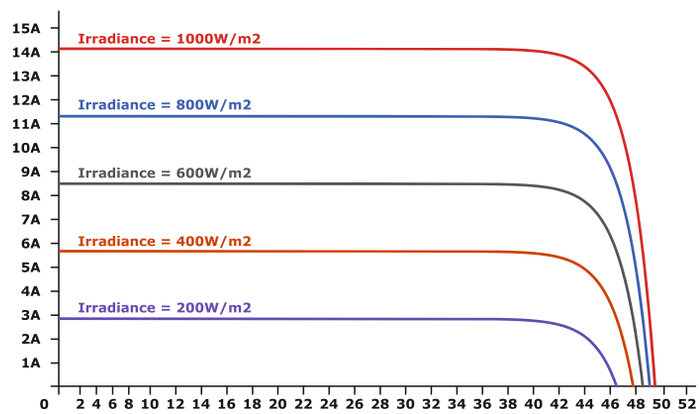
ELECTRICAL PARAMETERS

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 3 10**
- **Measuring Tolerance: 33%**



PERFORMANCE CURVE



I-V Curve

THERMAL CHARACTERISTICS & OPERATING CONDITIONS

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

PACKAGING CONFIGURATION

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

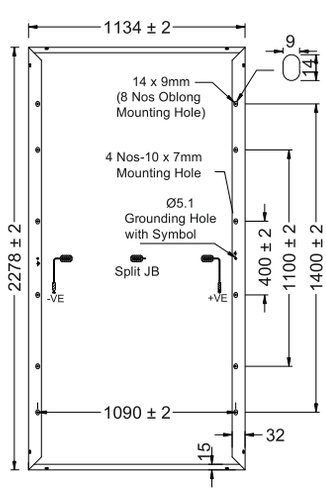
WARRANTY

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: IEC 61215-1:2016, IEC 61215-2:2016, IEC 61215-1-1:2016
IEC 61730-2:2016, IEC 61730-1:2016

OKAYA | SOLAR

MPPT OFF-GRID SOLAR PCUs

SOLAR PCU
1KVA – 15KVA (12V–240V)

36 MONTHS WARRANTY

DiM

DUAL INTERLEAVED MPPT

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

KEY FEATURES

- **35% EXTRA GENERATION VS PWM**
- **SMART RTC**
- **HJT & TOPCON COMPATIBLE**
- **TRUE SINEWAVE**

Okaya MPPT Off-Grid PCUs are ideal 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 reliable backup with higher 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

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PRODUCT SKUs#

MODEL NUMBER	SOLAR PCU 1050VA-12V MPPT	SOLAR PCU 2.2KVA-24V MPPT	SOLAR PCU 3KVA-24V MPPT	SOLAR PCU 3.5KVA-48V MPPT
Capacity	1050VA	2200VA	3KVA	3.5KVA
Nominal Battery Voltage	12 VDC	24 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	24±1 A	20±1 A
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	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	2450-3060W	3540W
Maximum PV Open Circuit Voltage Range	32-60V	44-110V	44-110V	84-110V
Maximum PV Input Current	30A	30A	40A	40A
Maximum PV Output Current	75A	83.5A	104A	70A
Vmpp Range	25V-50V	36V-88V	36V-88V	68V-88V
Protection Class	IP20 (Indoor Use)			
Alarms — Inverter ON (BACKUP Mode)	0.5 second beep in every 2 seconds -5 Times			
Alarms — 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			

*Note: As a process of continuous product improvement, the specifications are subjected to change without prior 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		

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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)

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

OKAYA | SOLAR

PWM OFF-GRID SOLAR PCUs

SOLAR PCU
925VA – 5000VA

36 MONTHS WARRANTY

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

Okaya PWM Off-Grid PCUs offer an affordable and reliable solution 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

मानकः पथप्रदर्शकः
Bureau of Indian Standards
BIS CERTIFIED

**Available in select models*

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 prior 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 ± O.2V DC		
Battery Low Cut (Vdc) Per Battery (Default)		10.6 ± O.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 ± O.2V DC (Default)		
	SMF Battery	13.8 ± O.2V DC		
Float Charging Voltage Per Battery		13.7 ± O.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		

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

OKAYA® | SOLAR

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.

ADVANCED TUBULAR TECHNOLOGY	ULTRA-LOW MAINTENANCE	LONG CYCLE LIFE	FASTER RECHARGE

मानक: पथप्रदर्शक:
Bureau of Indian Standards
BIS CERTIFIED

CERTIFICATIONS:
IS 16270 & IS 13369

Available in
40AH TO 200AH
WITH 3 & 5 YEARS 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 20 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

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