

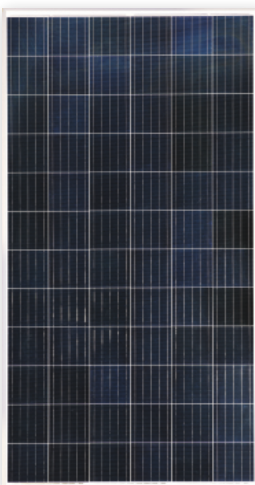


PRODUCT CATALOGUE

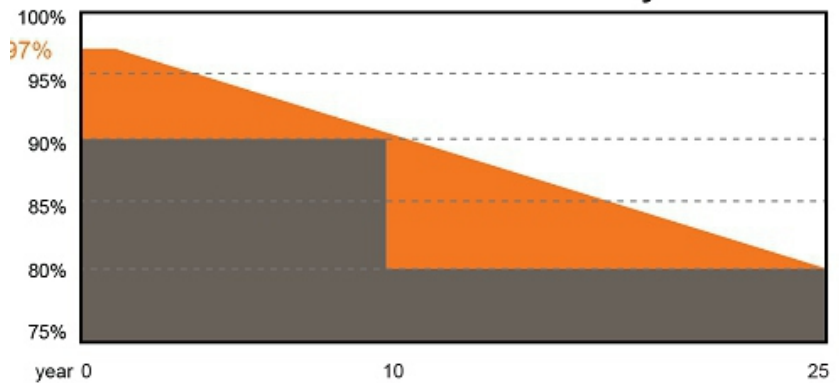
www.oneindig.co.in

WattSun

325/330/335WP - PHOTOVOLTAIC MODULES



25-Year Linear Performance Warranty



90% Power output up to 10 Years | 80% Power output up to 25 Years

ISO 9001 : Quality Management System

PID Free



Excellent module efficiency Solar cell efficiency up to 21.2%
Module efficiency up to 18%



High performance Higher PV Energy yields even under low light & cloudy conditions



Reliability Premium quality raw material & advanced manufacturing processes guarantees the reliability of our modules



Positive tolerance Positive tolerance of up to 4% delivers higher output reliability for our all modules.



EL Tested (ELECTRO LUMINESCENCE)



PID resistant & free of snail trails
Increased module robustness to minimize micro-cracks

10 Years Product Warranty* | 25 Years Performance Warranty*

ELECTRICAL TYPICAL VALUES

MODEL	SNS72FP325WP	SNS72FP330WP	SNS72FP335WP
Maximum Power (Pmax)	325w	330w	335w
Maximum Power Voltage (Vmp)	38.10V	38.42V	37.99V
Maximum Power Current (Imp)	8.53A	8.59A	8.82A
Open Circuit Voltage (Voc)	45.50V	45.79V	45.80V
Short Circuit Current (Isc)	8.94A	9.01A	9.30A
Tolerance	Positive Only	Positive Only	Positive Only
Module Efficiency	16.62%	16.88%	17.13%

MECHANICAL CHARACTERISTICS

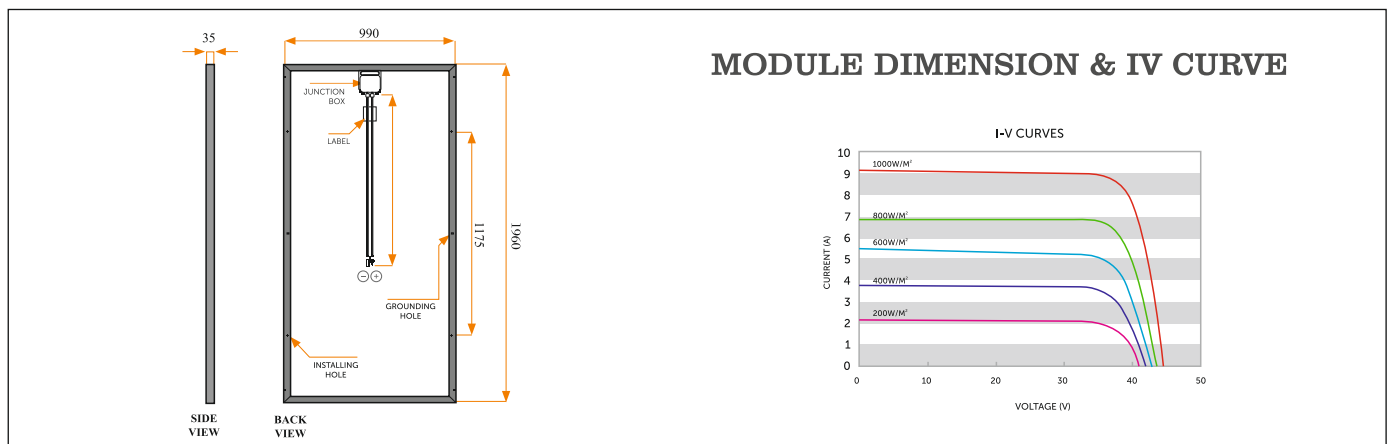
Dimensions	1960 x 990 x 35mm
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NOTE : STC: Irradiance 1000W/m² Module Temperature 25 C AM = 1.5

TEMPERATURE CHARACTERISTICS	
NOCT (Nominal Operation Temperature)	47° ± 2° C
Temperature Coefficient of Voc (β)	-.35%/°C
Temperature Coefficient of Isc (α)	+0.05%/ C
Temperature Coefficient of Pmax (γ)	-.45%/ C

ABSOLUTE MAXIMUM RATING	
Parameter	Values
Operating Temperature	From -40° C to 85° C
Maximum Series Fuse Rating	15A
IEC Application Class	IEC 61215, 61730, 61701, 62804
Maximum System Voltage	1000V DC (61215)

MODULE CHARACTERISTICS	
Solar Cells	Poly
No. of Cells	72 Cells(12*6)
Glass	Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	Ip68 Rated
Cable & Plug Connectors	1.1 x 4.0mm Mc4 ² Compatible/IP68
Maximum Snow Load	2400 Pascal
Maximum Wind Load	5400 Pascal
Hailstone Impact Test	80Km/h For 25mm Ice Ball



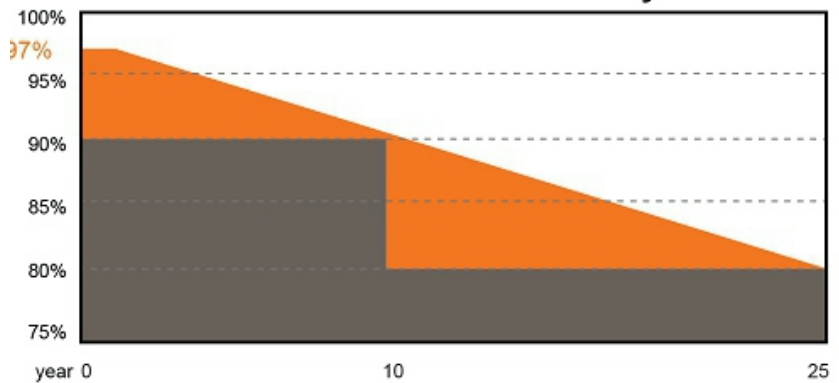
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WattEdge

390-400-410WP FULL CELL



25-Year Linear Performance Warranty



90% Power output up to 10 Years | 80% Power output up to 25 Years

ISO 9001 : Quality Management System

PID Free



Excellent module efficiency Solar cell efficiency up to 21.2%
Module efficiency up to 18%



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Increased module robustness to minimize micro-cracks

10 Years Product Warranty* | 25 Years Performance Warranty*

ELECTRICAL TYPICAL VALUES

MODEL	SNS72FM390WP	SNS72FM400WP	SNS72FM410WP
Maximum Power (Pmax)	390w	400w	410w
Maximum Power Voltage (Vmp)	40.15V	40.90V	41.62V
Maximum Power Current (Imp)	9.75A	9.81A	9.89A
Open Circuit Voltage (Voc)	49.56V	50.06V	50.66V
Short Circuit Current (Isc)	10.20A	10.26A	10.36A
Tolerance	Positive Only	Positive Only	Positive Only
Module Efficiency	19.73%	20.10%	20.50%

MECHANICAL CHARACTERISTICS

DIMENSION	1985X1000X35mm
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NOTE : STC: Irradiance 1000W/m² Module Temperature 25 C AM = 1.5

TEMPERATURE CHARACTERISTICS	
NOCT (Nominal Operation Temperature)	46° ± 2° C
Temperature Coefficient of Voc (β)	-0.2839
Temperature Coefficient of Isc (α)	0.0236
Temperature Coefficient of Pmax (γ)	-0.3998

ABSOLUTE MAXIMUM RATING	
Parameter	Values
Operating Temperature	From -40° C to 85° C
Maximum Series Fuse Rating	15A
IEC Application Class	
Maximum System Voltage	1500V DC (61215)

MODULE CHARACTERISTICS	
Solar Cells	Mono Perc 5BB
No. of Cells	72 Cells (12*6) 158.75mmx158.75mm
Glass	Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	Ip68 Rated
Cable & Plug Connectors	1.1 x 4.0mm Mc4 ² Compatible/IP68
Maximum Snow Load	2400 Pascal
Maximum Wind Load	5400 Pascal
Hailstone Impact Test	80Km/h For 25mm Ice Ball

MODULE DIMENSION & IV CURVE

I-V VARIATION WITH IRRADIANCE

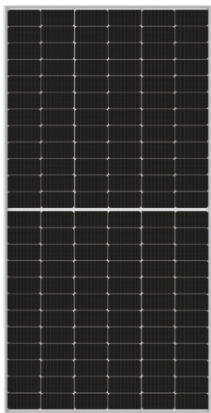
I-V VARIATION WITH TEMPERATURE

Note:

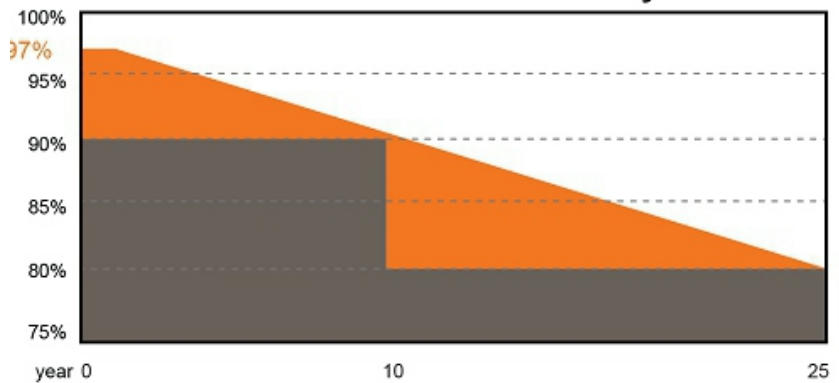
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WattEdge

400-430WP HALF CUT



25-Year Linear Performance Warranty



90% Power output up to 10 Years | 80% Power output up to 25 Years

ISO 9001 : Quality Management System

PID Free



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Module efficiency up to 18%



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EL Tested (ELECTRO LUMINESCENCE)



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Increased module robustness to minimize micro-cracks

10 Years Product Warranty* | 25 Years Performance Warranty*

ELECTRICAL TYPICAL VALUES

Models	Pmax (W)		Vmp (V)		Imp (A)		Isc (A)		Voc (V)		Module Eff.(%)
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	
SNS144CM400WP	400	302.0	41.70	39.60	9.60	7.66	10.36	8.16	49.80	48.50	19.88
SNS144CM410WP	410	310.0	42.30	40.10	9.70	7.76	10.60	8.26	50.04	48.90	20.38
SNS144CM420WP	420	318.0	42.90	40.70	9.82	7.86	10.84	8.36	50.28	49.31	20.88
SNS144CM430WP	430	328.0	43.50	41.30	9.92	7.96	11.08	8.46	50.52	49.71	21.28

MECHANICAL CHARACTERISTICS

DIMENSION	2015X1000X35mm
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NOTE : STC: Irradiance 1000W/m² Module Temperature 25 C AM = 1.5

TEMPERATURE CHARACTERISTICS	
NOCT (Nominal Operation Temperature)	46° ± 2°C
Temperature Coefficient of Voc (β)	-0.2839
Temperature Coefficient of Isc (α)	0.0236
Temperature Coefficient of Pmax (γ)	-0.3998

ABSOLUTE MAXIMUM RATING	
Parameter	Values
Operating Temperature	From -40°C to 85°C
Maximum Series Fuse Rating	20A
IEC Application Class	
Maximum System Voltage	1500V DC (61215)

MODULE CHARACTERISTICS	
Solar Cells	Mono 5BB
No. of Cells	144 Cells (24*6) 79.37mmx158.75mm
Glass	Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	Ip68 Rated
Cable & Plug Connectors	1.1 x 4.0mm Mc4 ² Compatible/IP68
Maximum Snow Load	2400 Pascal
Maximum Wind Load	5400 Pascal
Hailstone Impact Test	80Km/h For 25mm Ice Ball

MODULE DIMENSION & IV CURVE

I-V VARIATION WITH IRRADIANCE

I-V VARIATION WITH TEMPERATURE

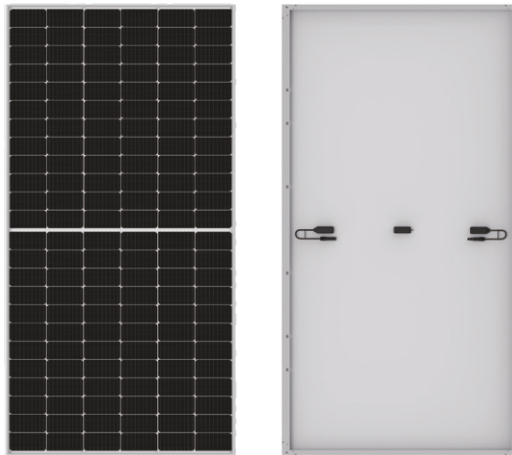
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WattEdge

550WP - 570WP SERIES

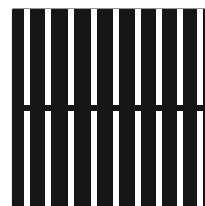
144 HALF-CUT MONO PERC MODULE | MBB MONO PERC CELL 182MM



Trust Senza to Deliver Reliable Performance Over Time

- World-class manufacturer of crystalline silicon photovoltaic modules
- Rigorous quality control meeting the highest international standards: ISO 9001, ISO 14001 and ISO17025
- Regular independently checked production process from international accredited institute/company
- Tested for harsh environments (IEC 61730 1&2, 61215, 61701, 62804)
- Long-term reliability tests
- 100% EL inspection ensuring defect-free modules

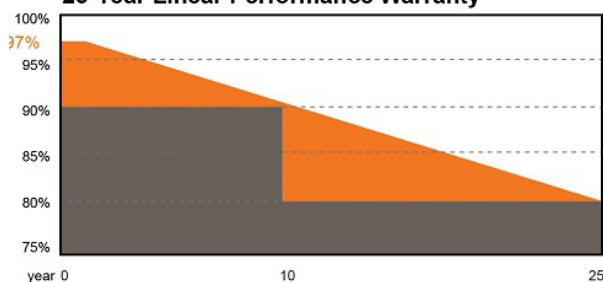
HD technology + Half-Cell



Half-cell with MBB design decreases internal resistance while boosts power output; narrowed inter-cell gap through flexible welding technology contributes to the module's compact dimension.

Industry-leading Warranty based on nominal power

25-Year Linear Performance Warranty



10
Product warranty

25
linear warranty

IP68 Rated Junction Box

IP68

The IP68 rated junction box ensures an outstanding waterproof level, supports installations in all orientations and reduces stress on the cables.

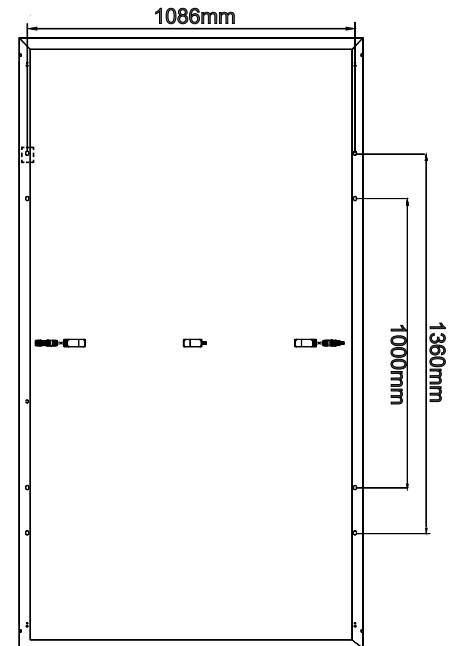
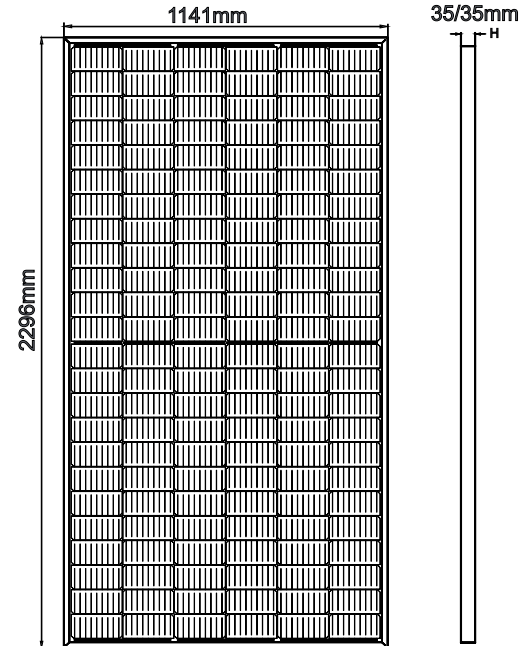
Electrical Characteristics

STC	SNS144CM570Wp-SNS144CM550Wp				
Maximum Power at STC (Pmax)	570W	565W	560W	555W	550W
Optimum Operating Voltage (Vmp)	42.72V	42.56V	42.40V	42.24V	42.05V
Optimum Operating Current (Imp)	13.34A	13.28A	13.21A	13.14A	13.08A
Open Circuit Voltage (Voc)	50.55V	50.39V	50.23V	50.07V	49.88V
Short Circuit Current (Isc)	14.36A	14.30A	14.24A	14.17A	14.11A
Module Efficiency	21.76%	21.57%	21.38%	21.19%	20.99%
Operating Module Temperature	-40 °C to +85 °C				
Maximum System Voltage	1500 V DC (IEC)				
Maximum Series Fuse Rating	30 A				
Power Tolerance	0/+5 W				

STC: Irradiance 1000 W/m² module temperature 25 °C, AM=1.5;
Tolerance of Pmax is within +/- 3% ;

NMOT					
Maximum Power at NMOT (Pmax)	434.8W	431.3W	427.3W	423.6W	419.8W
Optimum Operating Voltage (Vmp)	39.5V	39.3V	39.2V	39.0V	38.8V
Optimum Operating Current (Imp)	11.01A	10.96A	10.91A	10.85A	10.81A
Open Circuit Voltage (Voc)	47.8V	47.7V	47.5V	47.4V	47.2V
Short Circuit Current (Isc)	11.59A	11.54A	11.49A	11.43A	11.38A

NMOT: Irradiance 800 W/m² ambient temperature 20 °C, AM=1.5, wind speed 1 m/s.



Temperature Characteristics

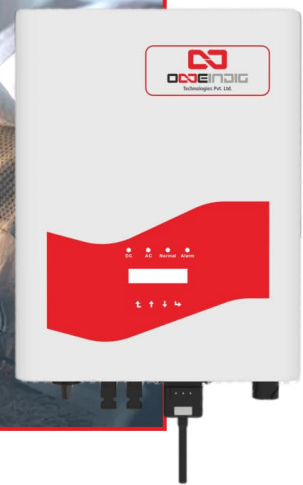
Nominal Module Operating Temperature (NMOT)	42 ± 2 °C
Temperature Coefficient of Pmax	-0.320%/°C
Temperature Coefficient of Voc	-0.260%/°C
Temperature Coefficient of Isc	0.046%/°C

Mechanical Characteristics

Solar Cell	91mmx182 mm
No. of Cells	144 (6 × 24)
Dimensions	2296 × 1141 × 35 mm
Weight	29.5 kgs
Front Glass	3.2 mm fully tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4.0 mm ² ,
Connectors	Mc4

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ONGRID INVERTER

1.5 kW to 110 kw



HYBRID INVERTER

SUN - 3.6 - 12k - Sg01 / 03 / 04 Lp3 - EU / AU



Colorful touch LCD Ip65 protection degree



6 time periods for battery charging / discharging



Max. charging / discharging current of 120 A



Frequency drop control, Max. 16pcs parallel



DC couple & AC couple to retrofit existing solar system



Support storing energy from diesel generator

Specifications

SUN-1.5K-G03 to 6.2K-G03

Model	SUN-1.5K-G03	SUN-2.2K-G03	SUN-2.7K-G03	SUN-3K-G03	SUN-3.3K-G03	SUN-3.6K-G03	SUN-4.2K-G03	SUN-5.2K-G03	SUN-6.2K-G03	
Input Side										
Max. DC Input Power (kW)	2	2.9	3.5	3.9	4.3	4.7	5.5	6.5	7.8	
Max. DC Input Voltage (V)	550									
Start-up DC Input Voltage (V)	80									
MPPT Operating Range (V)	70~500									
Max. DC Input Current (A)	13					13+13				
Max. Short Circuit Current (A)	19.5					19.5+19.5				
Number of MPPT / Strings per MPPT	1/1					2/1				
Output Side										
Rated Output Power (kW)	1.5	2.2	2.7	3	3.3	3.6	4.2	5.2	6.2	
Max. Active Power (kW)	1.7	2.42	2.97	3.3	3.63	3.96	4.62	5.72	6.82	
Nominal Output Voltage / Range (V)	L/N/PE 220V/187V-242V, 230V/ 195.5V-253V (Optional)									
Rated Grid Frequency (Hz)	50 / 60 (Optional)									
Operating Phase	Single phase									
Rated AC Grid Output Current (A)	6.5	9.6	11.7	13	14.3	15.7	18.3	22.6	27	
Max. AC Output Current (A)	7.2	10.5	12.9	14.3	15.8	17.2	20.1	24.9	29.7	
Output Power Factor	0.8 leading to 0.8 lagging									
Grid Current THD	<3%									
DC Injection Current (mA)	<0.5%									
Grid Frequency Range	47~52 or 57~62 (Optional)									
Efficiency										
Max. Efficiency	97.3%	97.3%	97.3%	97.5%	97.5%	97.3%	97.5%	97.5%	97.5%	
Euro Efficiency	97.1%	97.1%	97.1%	97.3%	97.3%	97.1%	97.3%	97.3%	97.3%	
MPPT Efficiency	>99%									
Protection										
DC Reverse-Polarity Protection	Yes									
AC Short Circuit Protection	Yes									
AC Output Overcurrent Protection	Yes									
Output Overvoltage Protection	Yes									
Insulation Resistance Protection	Yes									
Ground Fault Monitoring	Yes									
Anti-islanding Protection	Yes									
Temperature Protection	Yes									
Integrated DC Switch	Optional									
Remote software upload	Yes									
Remote change of operating parameters	Yes									
Surge protection	DC Type II / AC Type II									
General Data										
Size (mm)	280W×272.5H×184D					330W×323H×190D				
Weight (kg)	4.8					7.5				
Topology	Transformerless									
Internal Consumption	<1W (Night)									
Running Temperature	-25~65°, >45° derating									
Ingress Protection	IP65									
Noise Emission (Typical)	<25 dB									
Cooling Concept	Natural cooling									
Max. Operating Altitude Without Derating	2000m									
Warranty	8 years									
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11									
Operating Surroundings Humidity	0-100%									
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2									
Features										
DC Connection	MC-4 mateable									
AC Connection	IP65 rated plug									
Display	LCD1602									
Interface	RS485/RS232/Wifi/LAN									

Specifications

SUN-6K-G03 to 15K-G03

Model	SUN-6K-G03	SUN-7K-G03	SUN-8K-G03	SUN-9K-G03	SUN-10K-G03	SUN-12K-G03	SUN-15K-G03
Input Side							
Max. DC Input Power (kW)	7.8	9.1	10.4	11.7	13	15.6	19.5
Max. DC Input Voltage (V)	1000						1000
Start-up DC Input Voltage (V)	140						250
MPPT Operating Range (V)	120~850						200~850
Max. DC Input Current (A)	13 +13						13 +26
Max. Short Circuit Current (A)	19.5+19.5						19.5+39
Number of MPPT / Strings per MPPT	2/1						2/1+2
Output Side							
Rated Output Power (kW)	6	7	8	9	10	12	15
Max. Active Power (kW)	6.6	7.7	8.8	9.9	11	13.2	16.5
Nominal Output Voltage / Range (V)	3L/N/PE 380V/323V-418V, 400V/340V-440V						
Rated Grid Frequency (Hz)	50 / 60 (Optional)						
Operating Phase	Three phase						
Rated AC Grid Output Current (A)	8.7	10.1	11.6	13	14.5	17.4	21.7
Max. AC Output Current (A)	9.6	11.2	12.8	14.3	15.9	19.1	23.9
Output Power Factor	0.8 leading to 0.8 lagging						
Grid Current THD	<3%						
DC Injection Current (mA)	<0.5%						
Grid Frequency Range	47~52 or 57~62 (Optional)						
Efficiency							
Max. Efficiency	98.3%						98.5%
Euro Efficiency	97.5%						97.5%
MPPT Efficiency	>99%						
Protection							
DC Reverse-Polarity Protection	Yes						
AC Short Circuit Protection	Yes						
AC Output Overcurrent Protection	Yes						
Output Overvoltage Protection	Yes						
Insulation Resistance Protection	Yes						
Ground Fault Monitoring	Yes						
Anti-islanding Protection	Yes						
Temperature Protection	Yes						
Integrated DC Switch	Yes						
Remote software upload	Yes						
Remote change of operating parameters	Yes						
Surge protection	DC Type II / AC Type II						
General Data							
Size (mm)	330W×457H×185D					330×457×205	333W×472H×202D
Weight (kg)	10					11	15
Topology	Transformerless						
Internal Consumption	<1W (Night)						
Running Temperature	-25~65°, >45° derating						
Ingress Protection	IP65						
Noise Emission (Typical)	<25 dB					<40 dB	
Cooling Concept	Natural cooling					Smart cooling	
Max. Operating Altitude Without Derating	2000m						
Warranty	8 years						
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11						
Operating Surroundings Humidity	0-100%						
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						
Features							
DC Connection	MC-4 mateable						
AC Connection	IP65 rated plug						
Display	LCD1602						
Interface	RS485/RS232/Wifi/LAN						

Specifications

SUN-30K-G03 to 60K-G03

Model	SUN-30K-G03	SUN-33K-G03	SUN-35K-G03	SUN-40K-G03	SUN-45K-G03	SUN-50K-G03	SUN-60K-G03
Input Side							
Max. DC Input Power (kW)	39	42.9	45.5	52	58.5	65	78
Max. DC Input Voltage (V)	1000			1000		1000	
Start-up DC Input Voltage (V)	250			250		250	
MPPT Operating Range (V)	200~850			200~850		200~850	
Max. DC Input Current (A)	40+40			40+40+40		40+40+40+40	
Max. Short Circuit Current (A)	60+60			60+60+60		60+60+60+60	
Number of MPPT / Strings per MPPT	2/3			3/3		4/3	
Output Side							
Rated Output Power (kW)	30	33	35	40	45	50	60
Max. Active Power (kW)	33	36.3	38.5	44	49.5	55	66
Nominal Output Voltage / Range (V)	3L/N/PE 380V/323V-418V, 400V/340V-440V						
Rated Grid Frequency (Hz)	50 / 60 (Optional)						
Operating Phase	Three phase						
Rated AC Grid Output Current (A)	43.5	47.8	50.7	58	65.2	72.4	87
Max. AC Output Current (A)	47.9	52.6	55.8	63.8	71.7	79.7	95.7
Output Power Factor	0.8 leading to 0.8 lagging						
Grid Current THD	<3%						
DC Injection Current (mA)	<0.5%						
Grid Frequency Range	47~52 or 57~62 (Optional)						
Efficiency							
Max. Efficiency	98.6%			98.7%			
Euro Efficiency	97.8%			98%			
MPPT Efficiency	>99%						
Protection							
DC Reverse-Polarity Protection	Yes						
AC Short Circuit Protection	Yes						
AC Output Overcurrent Protection	Yes						
Output Overvoltage Protection	Yes						
Insulation Resistance Protection	Yes						
Ground Fault Monitoring	Yes						
Anti-islanding Protection	Yes						
Temperature Protection	Yes						
Integrated DC Switch	Optional						
Remote software upload	Yes						
Remote change of operating parameters	Yes						
Surge protection	DC Type II / AC Type II						
General Data							
Size (mm)	362W×577H×215D				647.5W×537H×303.5D		
Weight (kg)	25.5				44.5		
Topology	Transformerless						
Internal Consumption	<1W (Night)						
Running Temperature	-25~65°, >45° derating						
Ingress Protection	IP65						
Noise Emission (Typical)	<45dB						
Cooling Concept	Natural cooling				Smart cooling		
Max. Operating Altitude Without Derating	2000m						
Warranty	8 years						
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11						
Operating Surroundings Humidity	0-100%						
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						
Features							
DC Connection	MC-4 mateable						
AC Connection	IP65 rated plug						
Display	LCD1602						
Interface	RS485/RS232/Wifi/LAN						

Specifications

SUN-70K-G03 to 110K-G03

Model	SUN-70K-G03	SUN-80K-G03	SUN-90K-G03	SUN-100K-G03	SUN-110K-G03
Input Side					
Max. DC Input Power (kW)	91	104	135	150	150
Max. DC Input Voltage (V)	1000				
Start-up DC Input Voltage (V)	250				
MPPT Operating Range (V)	200~850				
Max. DC Input Current (A)	40+40+40+40		40+40+40+40+40+40		
Max. Short Circuit Current (A)	60+60+60+60		60+60+60+60+60+60		
Number of MPPT / Strings per MPPT	4/4		6/4		
Output Side					
Rated Output Power (kW)	70	80	90	100	110
Max. Active Power (kW)	77	88	99	110	121
Nominal Output Voltage / Range (V)	3L/N/PE 380V/323V-418V, 400V/340V-440V				
Rated Grid Frequency (Hz)	50 / 60 (Optional)				
Operating Phase	Three phase				
Rated AC Grid Output Current (A)	101.5	115.9	130.4	144.9	159.4
Max. AC Output Current (A)	111.6	127.5	143.5	159.4	175.4
Output Power Factor	0.8 leading to 0.8 lagging				
Grid Current THD	<3%				
DC Injection Current (mA)	<0.5%				
Grid Frequency Range	47~52 or 57~62 (Optional)				
Efficiency					
Max. Efficiency	98.7%				
Euro Efficiency	98.3%				
MPPT Efficiency	>99%				
Protection					
DC Reverse-Polarity Protection	Yes				
AC Short Circuit Protection	Yes				
AC Output Overcurrent Protection	Yes				
Output Overvoltage Protection	Yes				
Insulation Resistance Protection	Yes				
Ground Fault Monitoring	Yes				
Anti-islanding Protection	Yes				
Temperature Protection	Yes				
Integrated DC Switch	Yes				
Remote software upload	Yes				
Remote change of operating parameters	Yes				
Surge protection	DC Type II / AC Type II				
General Data					
Size (mm)	838W×568H×323D				
Weight (kg)	73.7				
Topology	Transformerless				
Internal Consumption	<1W (Night)				
Running Temperature	-25~65°, >45° derating				
Ingress Protection	IP65				
Noise Emission (Typical)	<55 dB				
Cooling Concept	Smart cooling				
Max. Operating Altitude Without Derating	2000m				
Warranty	8 years				
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11				
Operating Surroundings Humidity	0-100%				
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				
Features					
DC Connection	MC-4 mateable				
AC Connection	IP65 rated plug				
Display	LCD 240 × 160				
Interface	RS485/RS232/Wifi/LAN				

HAWK SERIES

MPPT PCU



CORE FEATURES



PURE SINE WAVE



TRUE MPPT



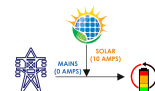
ADVANCED DSP TECHNOLOGY



REMOTE MONITORING IOT



CONFIGURABLE USER SETTINGS



AI CHARGE SHARING



INTELLIGENT MODES

- Big Data Big Display
- Built-in Energy Meter
- Maximized Solar Usage through Intelligent modes.
- 40% less panel required than other PCUs
- RS-232 (Industrial Standard MODBUS)
- Incorporated with Microchip and ST DSP Engines
- Safety and Protections
- IGBT based design and Fast Charging
- Wide range MPPT Input
- 6 Stage Battery Charging
- Multiple Battery Selection
- Sleek & Aesthetic design
- Works as standalone Solar Inverter in case of No-Grid

Technical Specifications

Parameters	Units	Rating								
Model		1KVA	1KVA	2KVA	3KVA/5KVA	5KVA/7.5KVA	7.5KVA/10KVA	10KVA	15KVA	
Operating DC Voltage	Volts	12	24	24	48	96	120	180	240	
SPV Parameters										
SPV Open Circuit Voltage Range (Min-Max)	Volts	18-45	36-90	36-90	72-180	144-360	180-450	270-450	360-600	
Max SPV Power	KW	1	1	2	3/5	5/7.5	7.5/10	10	15	
Compatible SPV Panels		36 / 60 / 72 Cell								
MPPT Based Charge Controller										
Switching Element		IGBT Module								
Controller		DSP								
Efficiency		> 95%								
Battery Charging Stages		5 (Softstart, Boost, Absorb, Float, Equalise)								
Battery										
Low Cut Off	Volts	10.5 / Battery +/-2%								
Low Cut Off Recovery	Volts	11.5 / Battery +/-2%								
Low Buzzer	Volts	10.7 / Battery +/-2%								
High Cut Off	Volts	15.5 / Battery +/-2%								
High Cut Off Recovery	Volts	15.0 / Battery +/-2%								
Boost Charging Volt by SPV(TUB)	Volts	14.5 / Battery +/-2%								
Boost Charging Volt by Grid(TUB)	Volts	14.0 / Battery +/-2%								
Charging Current by Grid	Amps	10A +/-2%								
No Load Battery Current	%	0.02								
Output										
Output@ No load	Volts	230 +/-2%								
Output Frequency	Hz	50 +/-2%								
Overload	Amps	3.5	3.5	7	10.5/17.4	17.4 / 26.0	26.0 / 34.8	34.8	52.2	
	Watts	800W	800W	1.6KW	2.4KW / 4KW	4KW / 6KW	6KW / 8KW	8KW	12KW	
Output Low Retry	-	1 Time								
Output Short Circuit	-	1 Time								
Grid										
No of Phase	-	1Phase-3Wire P,N,E								
Voltage Range(Inverter Mode)	V	100-280 +/-2%								
Voltage Range(UPS Mode)	V	175-255 +/-2%								
Frequency Range	Hz	45 - 55 +/-2%								
Display										
Display	Alphanumeric	16X2 LCD				20X4 LCD				
Parameters	Output (Inverter)	Voltage, Current, Power and Frequency								
	Input (Grid)	Voltage and Frequency								
	Solar	Voltage, Current, Power and Energy (Optional)								
	Battery	Voltage, Current								
	Status/Faults	Inverter Status, Mains Status, Charger Status, Solar Status and Battery Status/Charging Stages								
Inverter										
Switching Element	-	MOSFET				IGBT Module				
Output voltage	Volts	230 +/-2%								
Phase	-	1Phase-3Wire P,N,E								
Output Waveform	-	Digitally Filtered Pure Sine Wave								
Frequency	Hz	50 +/- 2%								
Changeover (Mains to Inverter)	ms	<10ms								
Output Power Factor	Pf	0.8								
Overload Retry	-	3 Times								
Switches	-	System ON/OFF, Mode Selection: Hybrid / PCU / Smart, INV /UPS Selection								
Indication (LED)	-	Inverter On, Mains In Range, Battery Low/High, Charger On, Overload, Faults								
Alarm (Audible)	-	Battery Low, Overload, Charger On, Inverter On, Solar Charger On								
Protection	-	Overload, Short Circuit Protection, Over Voltage, SPV Surge and Transient protection (MOV Varistors), Reverse Polarity of Battery, Over temperature Protection, Under Voltage and Over Voltage Protection								
Cooling	-	Forced Air cooling(Temp Controlled)								
Communication	-	Remote Monitoring System (Over GPRS / BLE and Wifi) or RS232								
Operating Temp	C	0-50								
Operating Humidity	%	95								
Protection class	-	IP20								
Dimension(LXWXH)	mm	355x330x205			510x460x305		750x500x350		750x500x350	
Weight	kg	18	21	31.5	40	52	63	71	85	

DOVE SERIES

PWM PCU



CORE FEATURES



LCD Display



PURE SINE WAVE



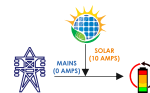
TRUE CV CC PWM



WALLMOUNT DESIGN



ADVANCED DSP TECHNOLOGY



AI CHARGE SHARING



INTELLIGENT MODES

- Big Data Big Display
- Maximized Solar Usage through Intelligent modes.
- Incorporated with Microchip and ST DSP Engines
- Safety and Protections
- 6 Stage Battery Charging
- Multiple Battery Selection
- Sleek & Aesthetic design
- Works as standalone Solar Inverter in case of No-Grid

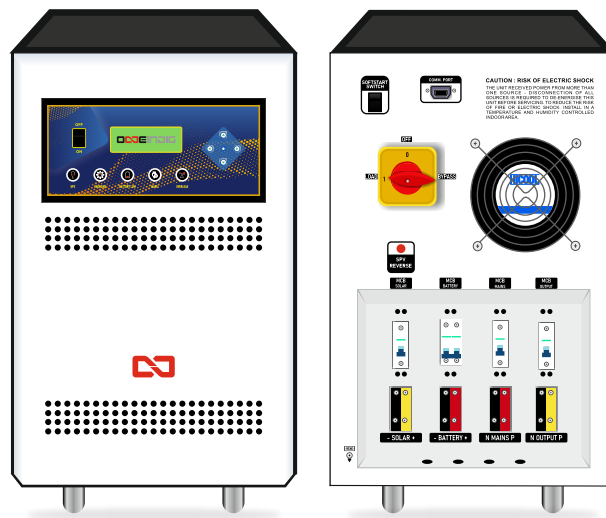
Technical Specifications

Parameters	Units	Rating							
Model		1150/850VA	1550/1KVA	2150/1.5KVA	2550/2KVA	3150/2.5KVA	3550/3KVA	4550/4KVA	5550/5KVA
Operating DC Voltage	Volts	12	12	24	24	24	48	48	48
SPV Parameters									
SPV Open Circuit Voltage Range (Min-Max)	VOC	16-30	16-30	32-60	32-60	32-60	64-120	64-120	64-120
Max SPV Power	W	650	800	1200	1600	1600	2400	3200	3200
Max Batt Current	Amps	50	60	50	60	60	50	60	60
Recommended Panel Cell	Cell	36	36	60/72	60/72	60/72	60/72	60/72	60/72
PWM Based Charge Controller									
Switching Element		MOSFET							
Controller		DSP							
Efficiency		95%							
Battery Charging Stages		5 (Softstart, Boost, Absorbion, Float, Equalise)							
Battery									
Low Cut Off	Volts	10.5/Batt +/-2%							
Low Cut Off Recovery	Volts	11.5/Batt +/-2%							
Low Buzzer	Volts	10.7/Batt +/-2%							
High Cut Off	Volts	15.5/Batt +/-2%							
High Cut Off Recovery	Volts	15.0/Batt +/-2%							
Boost Charging Volt by SPV(TUB)	Volts	14.5/Batt +/-2%							
Boost Charging Volt by Grid(TUB)	Volts	14.0/Batt +/-2%							
Charging Current by Grid	Amps	10A +/-2%							
Output									
Output@ No load	V	220 +/-2%							
Output Frequency	Hz	50 +/- 2%							
Overload	Watts	680W	800W	1.2KW	1.6KW	2KW	2.4KW	3.2KW	4KW
	AC Amps	3.1	3.6	5.5	7.3	9.1	10.9	13.9	18.1
	Discharging Amps	55	67	55	67	83	55	67	83
Output Low Retry	-	1 time							
Output Short Circuit	-	1 time							
Display									
Display	Alphanumeric	16X2 LCD						20X4 LCD	
Parameters	Inverter	Voltage, Current (Load%) and Frequency							
	Input (Grid)	Voltage and Frequency							
	Solar	Voltage, Current						Power and Energy (Optional)	
	Battery	Voltage, Current							
	Status/Faults	Inverter Status, Mains Status, Charger Status, Solar Status and Battery Status/Charging Stages							
Grid									
No of Phase	-	1Phase-3Wire P,N,E							
Voltage Range(Inverter)	V	100-280 +/-2%							
Voltage Range(UPS)	V	175-255 +/-2%							
Frequency Range	Hz	45-55 +/-2%							
Inverter									
Switching Element	-	MOSFET							
Output voltage	V	220 +/-2%							
Phase	-	1Phase-3Wire P,N,E							
Output Waveform	-	Digitally Filtered Pure Sine Wave							
Frequency	Hz	50							
Changeover (Mains to Inverter)	ms	<10ms							
Output Power Factor	Pf	0.8							
Overload Retry	-	3 Times							
Switches	-	System ON/OFF, Mode Selection: Hybrid / Smart, INV /UPS Selection							
Indication	-	Inverter On, Mains In Range, Battery Low/High, Charger On, Overload, Faults							
Alarm	-	Battery Low, Overload, Charger On, Inverter On, Solar Charger On							
Protection	-	Overload,Short Circuit Protection,Over Voltage,SPV Surge and Transient protection (MOV Varistors), Reverse Polarity of Battery,Over temperature Protection,under voltage and over voltage Protection							
Cooling	-	Forced Air cooling(Temp Controlled)							
Operating Temp	C	0-50							
Operating Humidity	%	95							
Protection Class	-	IP20							

FALCON SERIES

PFC ONLINE UPS

SPECIFICALLY FOR AIR CONDITIONING UNIT



CORE FEATURES



GALVANIC ISOLATION



HIGH & LOW CHARGING



PFC CHARGER



INDUSTRIAL MODBUS
MEGAECH COMM



20X4 LCD DISPLAY



IGBT DESIGN

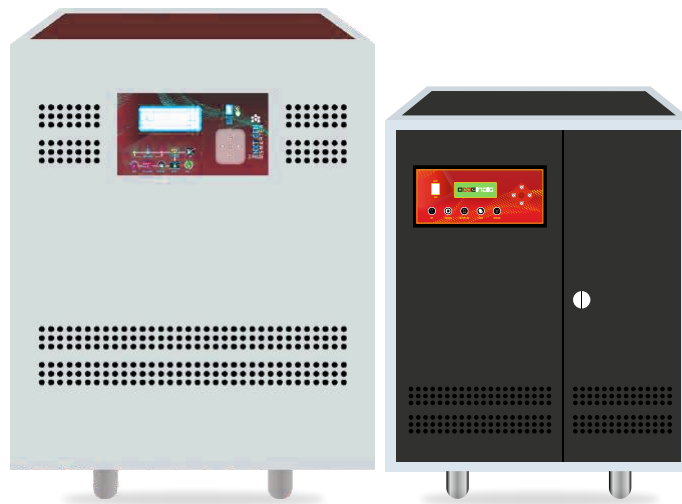
- Big Data Big Display
- Built-in Energy Meter
- RS-232 (Industrial Standard MODBUS)
- Incorporated with Microchip and ST DSP Engines
- Safety and Protections
- 30% More Power Saving (Power Factor Correction)
- IGBT based design and Fast Charging
- 6 Stage Battery Charging
- Multiple Battery Selection
- Sleek & Aesthetic design
- High & Low Charging Option
- Better Output Regulation
- Cold Start Through Mains Supported

Technical Specifications

Parameters	Units	Rating				
Model		3KVA	5KVA	7.5KVA	10KVA	15KVA
Operating DC Voltage	Volts	72/96/120/144	120/144/168/180	168/180	168/180	180
PFC Parameters						
Mains Input Range (Min - Max)	Volts	165-265 +/- 2%				
PFC Based Mains Charger						
Switching Element		IGBT MODULE				
Controller Type		DSP				
Type of Charger		PFC				
Efficiency		95%				
Battery Charging Stages		5 Stages (Soft Start, Boost, Absorption, Float and Equalize)				
Power Factor		0.8 pf				
Battery						
Low Cut Off	Volts	10.5 / Battery +/-2%				
Low Cut Off Recovery	Volts	11.5 / Battery +/-2%				
Low Buzzer	Volts	10.7 / Battery +/-2%				
High Cut Off	Volts	15.5 / Battery +/-2%				
High Cut Off Recovery	Volts	15.0 / Battery +/-2%				
Boost Charging Volt by Grid(TUB)	Volts	14.0 / Battery +/-2%				
Boost Charging Volt by Grid(SMF)	Volts	13.75 / Battery +/-2%				
Charging Current by Grid	Amps	[2.5 (Normal) / 5 (High) +/- 2% (Default)] or [5 (Normal) / 10 (High) +/- 2% (Optional)]				
Output						
Output @ No load	Volts	230 +/- 2%				
Output Frequency	Hz	50 +/- 2%				
Overload	Amps	10.5	17.4	26.1	34.8	52.2
	Watts	2.4KW	4KW	6KW	8KW	12KW
Output Low Retry	-	1 time				
Output Short Circuit	-	1 time				
No Load Battery Current	%	2%				
Display						
Display	Alphanumeric	20X4 LCD				
Parameters	Output (Inverter)	Voltage, Current, Power and Frequency				
	Input (Grid)	Voltage and Frequency				
	Battery	Voltage, Current				
	Status/Faults	Inverter Status, Mains Status, Charger Status and Battery Status/Charging Stages				
Mains						
No of Phase	-	1Phase-3Wire P,N,E				
Voltage range	Volts	165-280 +/- 2%				
Frequency range	Hz	45-55 +/- 2%				
Battery Charging Stages	-	5				
Inverter						
Switching Element	-	MOSFET				
Output voltage	Volts	230				
Phase	-	1Phase-3Wire P,N,E				
Output Waveform	-	Digitally Filtered Pure Sine Wave				
Frequency	Hz	50				
Output Power Factor	Pf	0.8				
Mains Bypass in case of Fault		Static By Pass (Optional)				
Overload Retry	-	3				
Switch	-	System ON/OFF, HIGH/LOW Charging Selection, SMF/TUB Battery Selection				
Indication	-	UPS On, Mains In Range, Battery Low/High, Charger On, Overload, Faults				
Alarm	-	Battery Low, Overload, Charger On, UPS ON				
Protection	-	Overload, Short Circuit Protection, Over Voltage, Mains Surge and Transient protection (MOV Varistors), Reverse Polarity of Battery, Over temperature Protection, under voltage and over voltage Protection				
Cooling	-	Forced Air cooling (Temp Controlled)				
Communication	-	Remote Monitoring System (Over GPRS / BLE and Wifi) or RS232 (Megatec)				
Operating Temp	C	0-50				
Operating Humidity	%	95				
Protection Class	-	IP20				
Dimension(LXWXH)	mm	510x460x305	750x500x350	750x500x350	750x500x350	750x500x350
Weight	KG	20	30	40	50	70

PHOENIX SERIES

3 PHASE ONLINE UPS



CORE FEATURES



CONFIGURABLE
USER SETTINGS



3 PHASE STAR/
DELTA



PFC CHARGER



REMOTE
MONITORING IOT



ADVANCED
DSP TECHNOLOGY

- Big Data Big Display
- Built-in Energy Meter
- RS-232 (Industrial Standard MODBUS)
- Incorporated with Microchip and ST DSP Engines
- Safety and Protections
- IGBT based design and Fast Charging
- 6 Stage Battery Charging
- Multiple Battery Selection
- Sleek & Aesthetic design

3 IN - 3 OUT

Technical Specifications

Technical Specifications		Rating													
Parameters	Units														
Model	3 in 3Out	5KVA	7.5KVA	10KVA	15KVA	20KVA	25KVA	30KVA	40KVA	50KVA	60KVA	80KVA	100KVA	120KVA	150KVA
Operating DC Voltage	Volts	240V/360V	240V/360V	240V/360V	240V/360V	240V/360V	360V	360V	420V	420V	420V	480V	480V	480V	480V
SPV Parameters															
Max SPV Power	KW	5KW	7.5KW	10KW	15KW	20KW	25KW	30KW	40KW	50KW	60KW	80KW	100KW	120KW	150KW
Compatible SPV Panels		36 / 60 / 72 Cell													
MPPT Based Charge Controller		IGBT Module													
Switching Element		DSP													
Controller		> 95%													
Efficiency		60 Amps													
Max Current From Solar		5 (Softstart, Boost, Absorption, Float, Equalise)													
Battery Charging Stages															
Battery															
Low Cut Off	Volts	10.5 / Battery +/- 2%													
Low Cut Off Recovery	Volts	11.5 / Battery +/- 2%													
Low Buzzer	Volts	10.7 / Battery +/- 2%													
High Cut Off	Volts	15.5 / Battery +/- 2%													
High Cut Off Recovery	Volts	15.0 / Battery +/- 2%													
Boost Charging Volt by SPV	Volts	14.5 / Battery +/- 2%													
Boost Charging Volt by Grid	Volts	14.0 / Battery +/- 2%													
Charging Current by Grid	Amps	10A +/- 2%													
No Load Battery Current	%	0.02													
Output															
Output@ No load	Volts	415 V AC +/- 2%													
Output Frequency	Hz	50 +/- 2%													
Overload Capacity	-	100% - 120% : 60 Seconds with 3 Times Auto Reset, 120% - 150% : 5 Second > 150% : 1 Second													
Output Low Retry	-	1 Time													
Output Short Circuit	-	1 Time													
Grid															
No of Phase	-	380V - 480V 3 PHASE 4 WIRE (R,Y,B,N)													
Frequency Range	Hz	45-55 Hz +/- 10%													
Power Factor	-	0.95													
Charger Topology	-	Buck/ Buck-Boost													
Display															
Display	Alphanumeric	20X4 LCD													
Output															
Input (Grid)		Voltage (R,Y,B) , Current (R,Y,B) and Frequency (R,Y,B)													
Solar		Voltage (R,Y,B) and Frequency (R,Y,B)													
Battery		Voltage, Current, Power and Energy (Optional)													
Status/Faults		Voltage, Current, Level (Bar Graph)													
Inverter		Inverter Status, Mains Status, Solar Status and Battery Status/Charging Stages													
Switching Element	-	IGBT Module													
Output Waveform	-	Digitally Filtered Pure Sine Wave													
Changeover(Mains to Inverter)	ms	0 ms													
Output Power Factor	pf	0.8													
Overload Retry	-	3 Times													
Indication (LED)	-	Inverter On, Mains In Range, Battery Low/High, Charger On, Overload, Faults													
Alarm (Audible)	-	Battery Low, Overload, Charger On, Inverter On, Solar Charger On													
Protection	-	Overload, Short Circuit Protection, Over Voltage, SPV Surge and Transient protection (MOV Varistors), Reverse Polarity of Battery, Over temperature Protection, Under Voltage and Over Voltage Protection													
Cooling	-	Forced Air cooling (Temp Controlled)													
Communication	-	Remote Monitoring System (Over GPRS / BLE and Wifi) or RS232													
Operating Temp	C	0-50													
Operating Humidity	%	95													
Protection class	-	IP20													

Note: Technical Specs are subject to change with prior notice, because of continuous development and improvement in design and technology.

VAJRA SERIES

SOLAR BATTERIES



Model No.	Nominal Voltage	Capacity	Dimension (L x W x H mm)	Type	Packed Wt (Wt ± 3%)
OTPL-100	12 V	100AH	505 x 215 x 295	ST	42.00 Kgs
OTPL-135	12 V	135AH	505 x 190 x 410	TT	55.00 Kgs
OTPL-150	12 V	150AH	505 x 190 x 410	TT	57.00 Kgs
OTPL-200	12 V	200AH	505 x 190 x 410	TT	63.00 Kgs

* Available in C10 and C20

* 36 / 60 Months Warranty

Features

- Spines are made of pressure die casting machine.
- High Purity Lead Oxide for Active material.
- New Long Life Separators.
- Quick Recovery from Deep Sulphation.

Advantages

- Supplied in factory charge condition.
- Ensuring High Quality
- Environment Friendly
- Very Efficient in Hybrid Application.
- Available in 60 Months And 36 Months warranty.

LITHIUM SOLAR ENERGY STORAGE SYSTEM



USP points:

- ▶ Premium Asthetic Design
- ▶ Wall hang & ground mount
- ▶ High Efficiency of 95%
- ▶ Easy installation
- ▶ CAN / RS485 communication
- ▶ 5 Years Warranty & 10+ years design life



Specifications

48V / 51.2V / 60V

LITHIUM IRON PHOSPHATE BATTERY (LiFePo4)

48 VOLTS

BATTERY CAPACITY	4.12KWH	4.8KWH	5.76KWH	7.2KWH	9.6KWH
AMPERE RATING	86AH	100AH	120AH	150Ah	200AH
CELL TYPE	Prismatic Cell				
OPERATION VOLTAGE	37.5V ~ 54.75V				
WARRANTY	Standard 5 Years (Extendable to 7 years)				
MAX DISCHARGE CURRENT	86A	100A	120A	150A	200A
STANDARD CHARGE CURRENT	43A	50A	60A	75A	100A

51.2 VOLTS

BATTERY CAPACITY	4.4KWH	5.12KWH	6.14KWH	7.68KWH	10.24KWH
AMPERE RATING	86AH	100AH	120AH	150Ah	200AH
CELL TYPE	Prismatic Cell				
OPERATION VOLTAGE	40V ~ 58.4V				
WARRANTY	Standard 5 Years (Extendable to 7 years)				
MAX DISCHARGE CURRENT	86A	100A	120A	150A	200A
STANDARD CHARGE CURRENT	43A	50A	60A	75A	100A

60 VOLTS

BATTERY CAPACITY	5.23KWH	6.08KWH	7.3KWH	9.12KWH	12.16KWH
AMPERE RATING	86AH	100AH	120AH	150Ah	200AH
CELL TYPE	Prismatic Cell				
OPERATION VOLTAGE	47.5V ~ 14.6V				
WARRANTY	Standard 5 Years (Extendable to 7 years)				
MAX DISCHARGE CURRENT	86A	100A	120A	150A	200A
STANDARD CHARGE CURRENT	43A	50A	60A	75A	100A

CUSTOMIZATION AVAILABLE

Corp. Office : C-44, Ground Floor, DDA Sheds, Okhla Phase-I, Delhi- 110020
 Telephone : 011-41416961 | 96502 22567 | 9289308900 | 9289308899

In-house Designing & Manufacturing of all types of Solar Mounting Structures

We have our own, experienced Chartered Engineers in our Team



Ground Mount



Aluminium Rails



Rooftops



Carports



Canal Top



Solar Pumps

MATERIAL USED

- ▶ Hot Rolled Coils (HRC, IS-2062, up to 350Mpa)
- ▶ Galvalume (ASTM A792M / IS-15961, AZ150-210gsm, up to 550Mpa)
- ▶ SS-304 grade &/or Electro/Galvanized Fasteners, Washers etc.
- ▶ Galvanized Plain Sheets (GP)
- ▶ IE-07 Aluminium Ingots
- ▶ 150-DN Genuine EPDM

SECTION TYPES

- ▶ L, C-Lip, U, Z, Box, Hat, Strut Channels (Thickness 5.00 to 0.80mm)
- ▶ Exclusive solutions, as required by the client drawings.

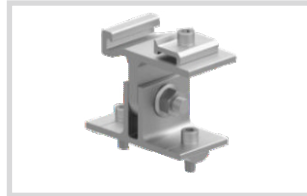


ALUMINIUM RAILS & CLAMPS

SOLAR STRUCTURES



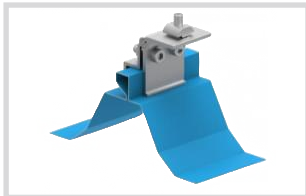
Adjustable Metal Roof Standing Clamp



Ground Solar Pile Adjustable Joint



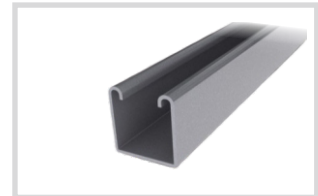
Aluminium Rail



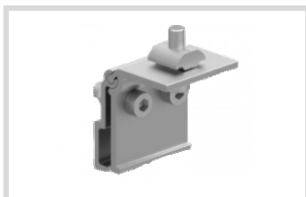
Adjustable Metal Roof Standing Clamp



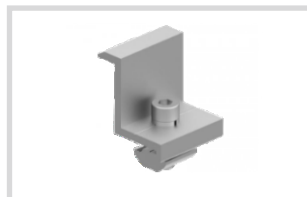
Ground Solar Pile T Joint



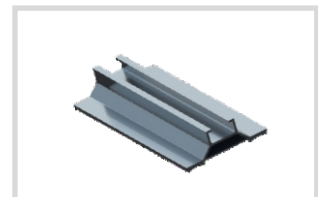
Aluminium Rail



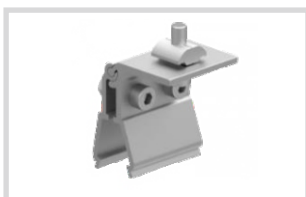
Stainless Metal Roof Standing Clamp



End Clamp



Aluminium Rail



Trapezoidal Metal Roof Clip Lock Clamp



Mid Clamp



GI C Purlin



Non-Penetrating Metal Roof Clip Lock Clamp



Tile Roof Hook



HDGI Pipe



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