



PRODUCT CATALOGUE

India's own wide range **Energy Solutions**



**SOLAR INVERTER | SOLAR PCU | PWM CHARGER |
SOLAR PANEL | SOLAR BATTERY**

**Call Us Now
+91 8800 013 836**

VIKRANTA (Solar Home PCU)

**Affordable Yet,
Very Reliable**



**Available in
VK 750 - VK1600**

FEATURES

- **Maintain battery health for longer life.**
- **Modified Sine wave output.**
- **Built-in IT mode.**
- **Easy Installation & low maintenance.**
- **Best Regulated output.**
- **Battery Charging with Multi stage (Bulk, Absorption & Float)
Auto Equalize in a month.**
- **Protections : RBP, RSPV, OVL, BL, BH, S.Ckt, I/P HV& LV, OHT.**
- **Inbuilt PWM Solar Charge Controller.**
- **Priority Mode Selection**
 - 1) PCU 2) Hybrid 3) Smart**For Saving Energy & Money.**
- **Can Operated without Solar.**
- **LED Display for Operation & Fault.**

TECHNICAL SPECIFICATION

VIKRANTA (Solar Home PCU)

Parameters		Rating			
Model No		VIKRANTA750	VIKRANTA1000	VIKRANTA1200	VIKRANTA1600
System Rating		675VA	875VA	1075VA	1475VA
Operating DC Voltage		12V			24V
Switching Element		Mosfet			
Charger Topology		Triac Based			
Max. Battery Capacity		200AH			
Operating Mode (SMART/PCU/HYBRID)		SMART			
Parameters (Grid)		Default Value			
Nominal Grid Voltage		230V 1Φ			
Nominal frequency		50Hz			
Battery Charging Method 4 Stages		Bulk/Absorption/Float/Equalize			
Grid - Battery Charging Voltage (TUB) Default mode	Boost	14.5V ± 0.2V (Each battery)			
	Float	13.8V ± 0.2V (Each battery)			
Grid - Battery Charging Voltage (SMF)	Boost	13.5V ± 0.2V (Each battery)			
	Float	13.5V ± 0.2V (Each battery)			
Grid - Battery Charging Voltage (Equalize)		After 30 days			
Grid Charging Current	Normal/Boost	10A/12.5A ± 2A			
	Enable/Disable	Enable			
Grid Reconnect @ Battery Voltage		11.8V ± 0.2V (Each battery)			
Grid Low Cut Voltage		170V ± 10V			
Grid Low Cut Recovery		180V ± 10V			
Grid High Cut Voltage		265V ± 10V			
Grid High Cut Recovery		255V ± 10V			
Grid Low Cut Voltage		100V ± 10V			
Grid Low Cut Recovery		110V ± 10V			
Grid High Cut Voltage		290V ± 10V			
Grid High Cut Recovery		280V ± 10V			
Change Over (Battery to Mains)		<5ms			
Change Over (Mains to Battery)		<15ms			
Parameters (Inverter)					
Output Phase		1Φ			
Nominal output voltage		240V ± 10% RMS			
Nominal Frequency		50Hz ± 1%			
Max. Output Current		2.1A	2.5A	2.9A	4.3A
Output Waveform		Modified Sinewave			
Battery Low Buzzer		10.8V ± 0.2V (Each battery)			
Battery Low Cut		10.5V ± 0.2V (Each battery)			
Battery High Cut		17V ± 0.2V (Each battery)			
Typical Efficiency		≥82%	≥80%		≥88%
Over Load Capacity	IT Mode Disable	>100% After 30 sec delay (with Alarm) 3Time Auto Reset , 4th Time Shut Down			
	IT Mode Enable	>100% After 30 sec delay (with alarm) 1st Time Shut Down			
		>150% Output Goes Down			
Protection		Overload, Battery Low, Battery High, Output Short Ckt, Battery Reverse (Fuse Blown), Over Heat @90°C ± 10°C , SPV High , I/P HV, I/P LV			
LED Indication		System ON, (IT mode, SMF/TUB, Boost Chg, Grid Chg.)Enable/Disable, Mains Status, Overload, Grid chg., Inverter ON, Battery Status, SPV Chg., Fault			
Switches (Micro)		System ON, (IT Mode, SMF/TUB, Boost Chg, Grid Chg.) Enable/Disable			
Parameters (Inverter)					
Switching Element		MOSFET			
Type of Charger		PWM			
SPV Charging Voltage (TUB)	Boost	15V ± 0.2V (Each Battery)			
	Float	14.2V ± 0.2V (Each Battery)			
SPV Charging Voltage (SMF)	Boost	13.7V ± 0.2V (Each Battery)			
	Float	13.7V ± 0.2V (Each Battery)			
Max. SPV Current		25A	50A	50A	50A
Efficiency		>95%			
Input Voltage Range (Min- Max) Voc		17V-25V			31V-49.5V
Maximum PV Power Recommended		(150W/160W)X2 (Parallel)	(150W/160W)X4 (Parallel)	(150W/160W)X5 (Parallel)	(315W/320W/325W)X4 (Parallel)
Parameters (Environment)					
Operating Temperature		0-50°C			
Cooling		Fan			
Max. Relative Humidity @ 25°C (non Condensing)		95%			
Noise @ 1 meter		50dB			
Standard Compliance		IP20			
Weight (kg)		7.75	8.8	11	14.2
Dimension (LXWXH)		275X276X131mm		306*274*166 mm	

*Specification are subject to change without prior notice due to constant improvement in design & technology.

* "Battery Set point" for each type of battery mentioned.

VIKRANTA PRO (rMPPT Solar Home PCU)

**Affordable Yet,
Very Reliable**

**Available in
VKP 850 - VKP 1520**



FEATURES

- Inbuilt rMPPT Solar Charge Controller
- Support 12V & 24V Solar Panel with 12V System
- Battery Charging at Low Voltage (90V) Mains Input
- Compatible with IT Load
- Maintain battery health for longer life
- Modified Sine wave output
- Easy Installation & low maintenance
- Battery Charging with Multi stage (Bulk, Absorption & Float)
- Auto Equalize in a month
- Protections : RBP, RSPV, OVL, BL, BH, S.Ckt, I/P HV& LV, OHT
- Priority Mode Selection- 1) Hybrid 2) Smart
For Saving Energy & Money
- Can Operated without Solar
- LED Display for Operation & Fault



TECHNICAL SPECIFICATION

VIKRANTA PRO (rMPPT Solar Home PCU)

Parameters		Rating		
Products		VIKRANTA PRO SOLAR PCU		
Model No.		VIKRANTA PRO 850	VIKRANTA PRO 1050	VIKRANTA PRO 1250
System Rating		700VA	900VA	1100VA
Operating DC Voltage		12V		
Switching Element		MOSFET		
Charger Topology		BOOST MOSFET		
Max. Battery Capacity		200AH		
Operating Mode (SMART/HYBRID)		HYBRID		
Parameters (Solar)				
Switching Element		MOSFET		
Type of Charger		rMPPT		
SPV Charging Voltage (TUB)	Boost	14.7V $\pm$ 0.2V (Each Battery)		
	Float	14.2V $\pm$ 0.2V (Each Battery)		
Maximum PV Power Recommended		540Wx1		
Solar PV Maximum Voltage		25 -50 VOC		
Efficiency		>95%		
Parameters (Grid)		Default Value		
Nominal Grid Voltage		230V 1 Φ		
Nominal frequency		50Hz		
Battery Charging Method 4 Stages		Bulk/Absorption/Float/Equalize		
Grid - Battery Charging Voltage	Boost	14.5V $\pm$ 0.2V (Each battery)		
	Float	13.8V $\pm$ 0.2V (Each battery)		
Grid - Battery Charging Voltage (Equalize)		After 30 days		
Grid Charging Current	Normal/Boost	15A /18A/12A $\pm$ 2A		
Grid Reconnect @ Battery Voltage		11.8V $\pm$ 0.2V (Each battery)		
Grid Low Cut Voltage	IT MODE ENABLE	170V $\pm$ 10V		
Grid Low Cut Recovery		180V $\pm$ 10V		
Grid High Cut Voltage		265V $\pm$ 10V		
Grid High Cut Recovery		255V $\pm$ 10V		
Grid Low Cut Voltage	IT MODE DISABLE	80V $\pm$ 10V		
Grid Low Cut Recovery		90V $\pm$ 10V		
Grid High Cut Voltage		280V $\pm$ 10V		
Grid High Cut Recovery		275V $\pm$ 10V		
Change Over (Battery to Mains)	IT MODE ENABLE	<8ms		
Change Over (Mains to Battery)		<15ms		
Parameters (Inverter)				
Output Phase		1 Φ		
Nominal output voltage		230V $\pm$ 10% RMS		
Nominal Frequency		50 Hz $\pm$ 1%		
Max. Output Current		2.1A	2.9A	3.5A
Output Waveform		Modified Sinewave		
Battery Low Buzzer		10.8V $\pm$ 0.2V (Each battery)		
Battery Low Cut		10.5V $\pm$ 0.2V (Each battery)		
Battery High Cut		16.5V $\pm$ 0.2V (Each battery)		
Typical Efficiency		>80%		
Over Load Capacity	IT Mode Disable	>100% After 30 sec delay (with Alarm) 3Time Auto Reset , 4th Time Shut Down		
	IT Mode Enable	>100% After 30 sec delay (with alarm) 1st Time Shut Down		
Protection		Overload, Battery Low, Battery High, Output Short Ckt, Battery Reverse (Fuse Blown) , Over Heat @90°C $\pm$ 10°C , SPV High,SPV Reverse , I/P HV, I/P LV		
LED Indication		System ON, Grid Status, Over load/Heat , Grid chg., Batt. ON, SPV Chg. Batt. Status .		
Switches		System ON, (IT Mode, Hybrid , Boost Charging)		
Parameters (Environment)				
Operating Temperature		0-45°C		
Cooling		Fan		
Max. Relative Humidity @ 25°C (non Condensing)		95%		
Noise @ 1 meter		50dB		
Standard Compliance		IP20		
Weight (kg)		7.6	8.4	13.3
Dimension (LXWXH)		275X305X131mm		
		302*306*165 mm		

*Specification are subject to change without prior notice due to constant improvement in design & technology.

rMPPT Solar Home PCU with inbuilt Li-ion Battery

**Model-
VIKRANTA PRO LiON 1200**



FEATURES

- Inbuilt rMPPT Solar Charge Controller
- Support 12V & 24V Solar Panel with 12V System
- Battery Charging at Low Voltage (90V) Mains Input
- Inbuilt Lithium LiFePo4 Battery
- Compatible with IT Load
- Zero Battery Maintenance & Long Battery Life
- Modified Sine wave output
- Easy Installation & low maintenance
- Battery Charging with Multi stage (Bulk, Absorption & Float)
- Protections : RBP, RSPV, OVL, BL, BH, S.Ckt, I/P HV & LV, OHT
- Priority Mode Selection- 1) Hybrid 2) Smart
For Saving Energy & Money
- Can Operated without Solar
- Multi Color LCD Display for Operation & Fault



TECHNICAL SPECIFICATION

VIKRANTA PRO LiON (with inbuilt Li-ion Battery)

Parameters			Rating	
Products			VIKRANTA PRO LION SOLAR PCU	
Model No.			VIKRANTA PRO LION 1200	
System Rating			1000 VA	
Operating DC Voltage			12.8V	
Switching Element			MOSFET	
Charger Topology			BOOST MOSFET	
Max. Battery Capacity (LiFePo4 (Inbuilt)			100AH , 1280Wh	
Operating Mode (SMART/HYBRID)			HYBRID	
Parameters (Solar)			Variable Settable Range	
Switching Element			MOSFET	
Type of Charger			rMPPT	
SPV Charging Voltage	Boost / Float		13.9V ± 0.2V	13.6V - 14.2V
Solar Charging Current			22A + 2A	
Maximum PV Power Recommended			540Wx1	
Solar PV Maximum Voltage			25V -50V (VOC)	
Efficiency			>95%	
Parameters (Grid)			Default Value	
Nominal Grid Voltage			230V 1Φ	
Nominal frequency			50Hz	
Battery Charging Method 3 Stages			Bulk/Absorption/Float/Equalize	
Grid - Battery Charging Voltage	Boost/Float		13.8V ± 0.2V	13.5V-14.1V
Grid Charging Current	Normal/Boost		15A /18A ± 2A	1A-18A
Grid Reconnect @ Battery Voltage			12.4V ± 0.2V	12V - 13V
Grid Low Cut Voltage	IT MODE ENABLE		170V ± 10V	
180V ± 10V				
265V ± 10V				
255V ± 10V				
Grid Low Cut Voltage	IT MODE DISABLE		80V ± 10V	
90V ± 10V				
280V ± 10V				
275V ± 10V				
Change Over (Battery to Mains)	IT MODE ENABLE		<8ms	
<15ms				
Parameters (Inverter)				
Output Phase			1Φ	
Nominal output voltage			230V+10% RMS	
Nominal Frequency			50 Hz±1%	
Max. Output Current			3.1A	
Output Waveform			Modified Sinewave	
Battery Low Buzzer			11.9V + 0.2V	Battery Low Cut +0.3V
Battery Low Cut			11.6V + 0.2V	11V-12V
Battery High Cut			14.5V + 0.2V	14.5V - 15.0V
Typical Efficiency			>80%	
Over Load Capacity	IT Mode Disable		>100% After 30 sec delay (with Alarm) 3 Time Auto Reset , 4th Time ShutDown	
	IT Mode Enable		>100% After 30 sec delay (with alarm) 1st Time Shut Down	
Protection			Overload, Battery Low, Battery High, Output Short Ckt, Battery Reverse (DC Fuse Blown) , Over Heat @90°C ± 10°C , SPV High, SPV Reverse , I/P HV, I/P LV	
LED Indication			SYSTEM ON, (IT MODE, HYB/SMT , BOOST CHG.) ENABLE/DISABLE	
Switches (Micro)			System ON/OFF, UP, Down, Back, Enter(For LCD Calibration)	
Display (Multi color)			Battery Voltage, Charging Current, Grid Voltage, Grid Frequency, Output Voltage, Output Frequency, Load%, Battery Graph , BLK/ABS/FLT, SPV Current, Operating Mode (HYB/SMT) .	
Parameters (Environment)				
Operating Temperature			0-45°C	
Cooling			Fan	
Max. Relative Humidity @ 25°C (non Condensing)			95%	
Noise @ 1 meter			50dB	
Standard Compliance			IP21	
Weight (kg)			24.5	
Dimension (LXWXH)			180X282X538mm	

*Specification are subject to change without prior notice due to constant improvement in design & technology.

UMANG (Solar Home PCU)

**Cost Effective PCU Compatible
with SMF, Gel and Tubular Batteries**



**Available in
UM 1100 - UM 4500**

FEATURES

- Inbuilt PWM Solar Charge Controller.
- Multi-Colour LCD Display.
- Freq.-Available 50 & 60Hz.
- Multi Charging Stage (Bulk, Absorption & Float) Auto Equalize in a month.
- Solar Priority for Load & Battery Charging.
- Preference to Solar Power over Grid Power.
- Pure Sine Wave Output.
- Protections : RBP, RSPV, OVL, BL, BH, S.Ckt, I/P HV& LV, OHT.
- Compatible with DG as an Input Source.
- Compatible with IT Load.
- Compatible with SMF, Gel & Tubular Batteries.
- Priority Selection - PCU, Smart & Hybrid for Saving Energy and Money.

TECHNICAL SPECIFICATION

UMANG (Solar Home PCU)

Parameters										
Model No.		UM 1100	UM 1600	UM 1825	UM 2025	UM 3050	UM 3500	UM 4500		
System Rating (VA)		850	1050	1400	1500	2200	3000	3500		
Bulb Load Max. (Linear load : resistive + inductive)		680W	840W	1120W	1200W	1760W	2400W	2800W		
Operating DC Voltage		12V			24V		48V			
Switching Element		MOSFET								
Charger Topology		Boost Mosfet								
Max. Battery Capacity		200AH MAX.								
Operating Mode		SMART/PCU/HYBRID		Smart mode (Default)						
Optional DG mode		Enable/Disable		Disable (Default)						
Solar Power Maximum		650W		800W	1000W	1200W	2000W	3000W		
Input Voltage Range (Min - Max) Voc		17V-25V				31V-55V		60V-105V		
Solar Panel Recommended (Watt)		165W x 4P*	165W x 5P*	165W x 6P*	335W x 4P*/400W x 3P* 540W x 2P*	335W x 6P*/400W x 5P* 540W x 4P*	335Wx2S* & 3P*/400Wx2S* & 4P*/540Wx2S* & 3P*			
Parameters (Grid)									Variable Settable Range (Each Batt.)	
Default Value										
Nominal Grid Voltage		230V 1Φ								
Nominal frequency		50Hz								
Frequency Range		47-53Hz ± 1Hz								
Battery Charging Method 4 Stages		BULK/ABSORPTION/FLOAT/EQUALIZE								
Grid Charging Voltage (Equalize)		After 30 Days								
Default charging mode		TUB/LITHIUM								
Grid - Battery Charging Voltage (TUB)		Boost	14.5V ± 0.2V (Each Battery)						13.5-15V	
		Float	13.8V ± 0.2V (Each Battery)						13-14.2V	
Grid - Battery Charging Voltage (LITHIUM)		Boost	13.8V ± 0.2V (Each Battery)						13.5V-14.2V	
		Float	13.6V ± 0.2V (Each Battery)							
Grid Charging Current		Normal/Boost	12A/15A ± 2A						1A-20A	
Optional Grid charging		Enable/Disable	Enable							
Grid Reconnect @ Battery Voltage (TUB)		11.8V ± 0.2V (Each Battery)						11-12V		
Grid Reconnect @ Battery Voltage (LITHIUM)		12.4V ± 0.2V (Each Battery)						12-13V		
Grid Low Cut Voltage		IT Mode Enable	170V ± 10V							
Grid Low Cut Recovery			180V ± 10V							
Grid High Cut Voltage			265V ± 10V							
Grid High Cut Recovery			255V ± 10V							
Grid Low Cut Voltage		IT Mode Disable	100V ± 10V							
Grid Low Cut Recovery			110V ± 10V							
Grid High Cut Voltage			290V ± 10V							
Grid High Cut Recovery			280V ± 10V							
Change Over (Battery to Mains)		IT Mode Enable/Disable	<5ms							
Change Over (Mains to Battery)		IT Mode Enable	<12ms							
		IT Mode Disable	<30ms							
Parameters (Inverter)										
Output Phase		1Φ								
Nominal Output Voltage		230V ± 8%								
Nominal Frequency		50 Hz ± 1%								50Hz/60Hz
Battery Low Buzzer (TUB)		10.8V ± 0.2V (Each Battery)								Battery Low Cut+0.3V
Battery Low Cut (TUB)		10.5V ± 0.2V (Each Battery)								10-11.5V
Battery Low Buzzer (LITHIUM)		11.9V ± 0.2V (Each Battery)								Battery Low Cut+0.3V
Battery Low Cut (LITHIUM)		11.6V ± 0.2V (Each Battery)								11V-12V
Battery High Cut (TUB)		16.5 ± 0.2V (Each Battery)								16.5-17.5V
Battery High Cut (LITHIUM)		14.5 ± 0.2V (Each Battery)								14.5-15V
Output Waveform		Sinewave								
Typical Efficiency		≥80%						≥85%		
Voltage Harmonic		<3% (Linear Load)								
Over Load Capacity		IT Mode Disable	>100% After 30 sec delay (with Alarm) 3Time Auto Reset, 4th Time Shut Down Note : 1HP Motor Load Run for 15min with alarm (1 sec ON 5sec OFF) in 3000 Model.							
		IT Mode Enable	>100% After 30 sec delay 1st Time Shut Down							
		>115% Output Goes Down								
Motor 1 HP		NA		Yes (<7.5A)			Yes			
Protection		Overload, Battery Low, Battery High, Output Short Ckt, Battery Reverse (Fuse Blown), Over Heat @90°C ± 10°C, Over/Under frequency, I/P Hi, I/P Low, SPV High								
LED Indication		System ON, (IT mode, TUB/LITHIUM, Boost Chg, DG mode, Grid Chg.) Enable/Disable								
Switches (Micro)		System ON/OFF, UP, Down, Back, Enter(For LCD Calibration)								
Display (Multi Color)		Batt. Voltage, Chg. Current, Grid Voltage, Grid Freq., O/P Voltage, O/P Freq, Load%, Batt. Graph, Overheat, BLK/ABS/FLT., SPV Current, Operating Mode (HYB/PCU/SMT).								
Parameters (Solar)										
Switching Element		Mosfet								
Type of Charger		PWM								
SPV Chgarging Voltage (Boost)		TUBULAR	14.7V ± 0.2V (Each Battery)						14.2V-15.5V	
SPV Chgarging Voltage (Reconnect)		LITHIUM	14.2V ± 0.2V (Each Battery)						13.1-14.5V	
SPV Chgarging Voltage (Boost)		13.9V ± 0.2V (Each Battery)								13.6-14.4V
SPV Chgarging Voltage (Reconnect)		13.7V ± 0.2V (Each Battery)								13.6-14.3V
Solar Current (Min)		>3A (Below 3A system will act like solar absent)								
Efficiency		≥95%								
Parameters (Environment)										
Operating Temperature		0-50°C								
Cooling		Fan								
Max. Relative Humidity @ 25°C (non Condensing)		95%								
Noise @ 1 meter		50dB								
Standard Compliance		IP21								
BIS Approved		No			Yes			No		
System Weight (KG)		10	11	15.5	15	26	25			
Dimension (LXWXH)mm		275x306x128		300x306x167		333x306x315	333x306x315			

Note. * Specification are subject to change without prior notice due to constant improvement in design & technology.
Above mention battery parameter is according to single battery.

TEJAS LiON (Wall Mounted rMPPT Solar PCU)

**Wall Mountable rMPPT Solar PCU
with Built-in LiFePO4 Battery.**

**Model Available
TEJAS LiON 1200**



FEATURES

- **Controller based design, Pure Sine Wave**
- **Built-in rMPPT charge controller that supports 1kW panels.**
- **Multi-colour LCD Display.**
- **Inbuilt LiFePO4 Battery with Zero battery maintenance & Long battery life.**
- **Freq.:- Available - 50Hz & 60Hz.**
- **Compatible with IT Load.**
- **Preference to Solar Power over Grid Power.**
- **Compatible with DG as an input Source.**
- **Protections : RSPV, OVL, Batt. Low, Batt. Hi., S.Ckt, Grid Low & Hi, Over Heat, SPV Hi**
- **Priority Selection - PCU, Smart & Hybrid for Saving Energy & Money.**



TECHNICAL SPECIFICATION

TEJAS LiON (Wall Mounted rMPPT Solar PCU)

Parameters			
Product		Solar PCU	
Model No.		TEJAS LiON 1200	
System Rating		1000VA	
Operating DC Voltage		25.6V	
Switching Element		MOSFET	
Max. Battery Capacity		48AH , 1.2Kw LiFePo4 (Inbuilt)	
Grid Charger Topology		Boost Charging Topology	
Operating Mode	SMART/PCU/HYBRID	Smart mode (Default)	
Optional DG mode	Enable/Disable	Disable (Default)	
Solar Power Maximum		1000W	
Input Voltage Range (Min, - Max) Voc		30V-106V	
Parameters (Grid)		Default Value	Variable setttable Range (Each Batt.)
Nominal Grid Voltage		230V 1Φ	
Nominal frequency		50Hz	
Frequency Range		47-53Hz + 1Hz	
Battery Charging Method 3 Stages		Bulk/Absorption/Float	
Grid - Battery Charging Voltage	Boost/Float	13.8V+0.2V (Each Battery)	13.5V-14.2V
Grid Charging Current	Normal/Boost	15A/18A +2A	1A -20A
Optional Grid charging	Enable/Disable	Enable	
Grid Reconnect @ Battery Voltage		12.4V +0.2V (Each Battery)	12-13V
Grid Low Cut Voltage	IT mode Enable	170V ± 10V	
Grid Low Cut Recovery		180V ± 10V	
Grid High Cut Voltage		265V ± 10V	
Grid High Cut Recovery		255V ± 10V	
Grid Low Cut Voltage	IT mode Disable	100V ± 10V	
Grid Low Cut Recovery		110V ± 10V	
Grid High Cut Voltage		290V ± 10V	
Grid High Cut Recovery		280V ± 10V	
Change Over (Battery to Mains)	IT mode Enable/Disable	<8ms	
Change Over (Mains to Battery)	IT mode Enable	<12ms	
	IT mode Disable	<30ms	
Parameters (Inverter)			
Output Phase		1Φ	
Nominal Output Voltage		220V	
Output voltage range		220V±8%	
Nominal Frequency		50 Hz±1%	
Max. Output Current		3.0A	
Battery Low Buzzer		11.9V+0.2V (Each Battery)	NA
Battery Low Cut		11.6V+0.2V (Each Battery)	11-12V
Battery High Cut		14.5+0.2V (Each Battery)	NA
Output Waveform		Sinewave	
Typical Efficiency		>82%	
Voltage Harmonic		<3% (Linear Load)	
Over Load Capacity	IT Mode Disable	>100% After 30 sec delay (with alarm) 3Time Auto Reset , 4th Time Shut Down	
	IT Mode Enable	>100% After 30 sec delay (with Alarm) 1st Time Shut Down	
Protection		Overload, Battery Low, Battery High, Output Short Ckt, Battery Reverse (Through MCB) , Over Heat @90°C ± 10°C, Over/Under frequency, I/P High, I/P Low, SPV High, SPV Low	
LED Indication		System ON, (IT mode , Boost Chg , DG mode , Grid Chg.) Enable/Disable	
Switches (Micro)		System ON/OFF, UP, Down, Back, Enter (For LCD Calibration)	
Display (Multi color)		Battery Voltage, Charging Current, Grid Voltage, Grid Frequency, Output Voltage, Output Frequency, Load %, Battery Graph, Overheat, SPV Current, Operating Mode (HYB/PCU/SMT)	
Parameters (Solar)			
Switching Element		Mosfet	
SPV Charging Voltage	Boost/Float	13.9V+0.2V (Each Battery)	13.6-14.4V
Solar Charging Current (Battery)		20A+2A (Default)	11-22A
Battery Charging Method 3 Stages		Bulk/Absorption/Float	
Efficiency		>94%	
Parameters (Environment)			
Operating Temperature		0-50°C	
Cooling		Fan	
Max. Relative Humidity @ 25°C (Non Condensing)		95%	
Noise @ 1 meter		50dB	
Standard Compliance		IP20	
System Weight (KG)			
Dimension (LXWXH)mm		520 X 362 X 185	

Specification are subject to change without prior notice due to constant improvement in design & technology.

TEJAS (Solar Home PCU)

**Get Two Battery Back-up
in Single Battery**

**Available in
TEJAS 1200 - TEJAS 3500**



FEATURES

- Controller based Design, Pure Sine Wave with 100% Tracking of Solar Panel, Built in rMPPT Solar Charge Controller.
- Multi-Colour LCD Display.
- All Parameter Selected.
- Freq.:- Available - 50Hz & 60Hz.
- Multi Charging Stage (Bulk, Absorption & Float)
- Solar Priority of Load & Battery Charging.
- Preference to Solar Power Over Grid Power.
- Pure Sine Wave Output.
- Protections : RBP, RSPV, OVL, BL, BH, S.Ckt, I/P HV & LV, OHT.
- Compatible with DG as an Input Source.
- Compatible with IT Load.
- Compatible with Lithium, Gel & Tubular Batteries.
- Priority Selection - PCU, Smart & Hybrid for Saving Energy and Money.



TECHNICAL SPECIFICATION

TEJAS (Solar Home PCU)

Parameters					
Model		TEJAS SOLAR PCU			
Model No.		TEJ 1200	TEJ 1600	TEJ 2400	TEJ 3500
System Rating		1000VA	1400VA	2000VA	3000VA
Operating DC Voltage		12V		24V	
Switching Element		MOSFET			
Charger Topology		Boost Mosfet			
Max. Battery Capacity		200AH			
Operating Mode		Smart mode (Default)			
Optional DG mode		Disable (Default)			
Solar Power Maximum		1000W	1650W	2000W	3000W
Input Voltage Range (Min - Max) Voc		15V-53V	30V-53V	30V-106V	60V-106V
Parameters (Grid)				Default Value	
Nominal Grid Voltage		230V 1Φ			
Nominal frequency		50Hz			
Frequency Range		47-53Hz ± 1Hz			
Battery Charging Method 3 Stages		Bulk/Absorption/Float			
Default charging mode		(TUB/Lithium) Tubular			
Grid - Battery Charging Voltage (TUB)	Boost	14.5V ± 0.2V (Each Battery)			
	Float	13.8V ± 0.2V (Each Battery)			
Grid - Battery Charging Voltage (Lithium)	Boost/Float	13.8V ± 0.2V (Each Battery)			
Grid Charging Current	Normal/Boost	10A/15A ± 2A			
Optional Grid charging	Enable/Disable	Enable			
Grid Reconnect @ Battery Voltage (TUB)		11.8V ± 0.2V (Each Battery)			
Grid Reconnect @ Battery Voltage (Lithium)		12.4V ± 0.2V (Each Battery)			
Grid Low Cut Voltage	IT Mode Enable	170V ± 10V			
Grid Low Cut Recovery		180V ± 10V			
Grid High Cut Voltage		265V ± 10V			
Grid High Cut Recovery		255V ± 10V			
Grid Low Cut Voltage	IT Mode Disable	100V ± 10V			
Grid Low Cut Recovery		110V ± 10V			
Grid High Cut Voltage		290V ± 10V			
Grid High Cut Recovery		280V ± 10V			
Change Over (Battery to Mains)	IT Mode Enable/Disable	<8ms			
Change Over (Mains to Battery)	IT Mode Enable	<12ms			
	IT Mode Disable	<30ms			
Parameters (Inverter)					
Output Phase		1Φ			
Nominal Output Voltage		220V			
Output voltage range		220V ± 8%			
Nominal Frequency		50 Hz ± 1%			
Max. Output Current		2.9A	4.3A	5.6A	9A
Battery Low Buzzer (TUB)		10.8V ± 0.2V (Each Battery)			
Battery Low Cut (TUB)		10.5V ± 0.2V (Each Battery)			
Battery High Cut (TUB)		16.5 ± 0.2V (Each Battery)			
Battery High Cut (LITHIUM)		14.5 ± 0.2V (Each Battery)			
Battery Low Buzzer (Lithium)		11.9V ± 0.2V (Each Battery)			
Battery Low Cut (Lithium)		11.6V ± 0.2V (Each Battery)			
Output Waveform		Sinewave			
Typical Efficiency		>80%		>82%	
Voltage Harmonic		<3% (Linear Load)			
Over Load Capacity	IT Mode Disable	>100% After 30 sec delay (with alarm) 3Time Auto Reset , 4th Time Shut Down Note : 1HP Motor Load Run for 15min with alarm (1 Sec ON, 5 Sec OFF) in 2400 Model .			
	IT Mode Enable	>100% After 30 sec delay (with Alarm) 1st Time Shut Down			
		>115% Output Goes Down			
Motor 1 HP		NA	Yes (<6.5A)	Yes	
Protection		Overload, Battery Low, Battery High, Output Short Ckt, Battery Reverse (Fuse Blown), Over Heat @90°C ± 10°C, Over/Under frequency, I/P HV, I/P LV, SPV High, SPV Low			
LED Indication		System ON, (IT mode, TUB/Lithium) , Boost Chg, DG mode, Grid Chg, Enable/Disable			
Switches (Micro)		System ON/OFF, UP, Down, Back, Enter (For LCD Calibration)			
Display (Multi Color)		Battery Voltage, Charging Current, Grid Voltage, Grid Frequency, Output Voltage, Output Frequency, Load %, Battery Graph, Overheat, SPV Current, Operating Mode (HYB/PCU/SMT)			
Parameters (Solar)					
Switching Element		Mosfet			
Type of Charger		MPPT			
SPV Chgarging Voltage (TUB)	Boost	14.7V ± 0.2V (Each Battery)			
	Float	14.2V ± 0.2V (Each Battery)			
SPV Charging Voltage (LITHIUM)		13.9V ± 0.2V (Each Battery)			
SPV Charging Current		18A ± 2A	25A ± 2A	18A ± 2A	18A ± 2A
Battery Charging Method 3 Stages		Bulk/Absorption/Float			
Efficiency		>94%			
Parameters (Environment)					
Operating Temperature		0-45°C			
Cooling		Fan			
Max. Relative Humidity @ 25°C (non Condensing)		95%			
Noise @ 1 meter		50dB			
Standard Compliance		IP21			
System Weight (KG)		12.4	19	17.6	25
Dimension (LXWXH)mm		327.8X305.5X116	350x305x315	333.8X305.5X158.6	350X305X360

Note. 1) Specification are subject to change without prior notice due to constant improvement in design & technology.

2) Solar Panel Max. (*S- Series, *P- Parallel)

3) Battery set point according to each Battery above mentioned.

Affordable Home rMPPT PCU

Available in
3.75kVA- 5kVA/48V



FEATURES

- DSPic based Pure Sine Wave Design.
- Inbuilt rMPPT charge controller (upto 30% more efficient).
- Maximum preference to Solar Power.
- Wi-Fi based remote monitoring.
- Comply with IEC 61683 and IEC 60068-2-(1,2,14,30) standards.
- Reverse AC Voltage Protection.
- User friendly & Easily accessible LCD Display with all AC
- DC Parameter Configurable by Display Switches & Digital LCD (20X4) Display.
- User Friendly Control :- Output Voltage, Chg. Voltage - SPV/Grid, Chg. Current - SPV/Grid, Grid Reconnect, Batt. Low.
- Priority based working modes - Smart/PCU/Hybrid (for saving energy & money).
- Grid Charging, IT Load - Enable/Disable by LCD.



TECHNICAL SPECIFICATION

TEJAS SOLAR PCU 1Ph in 1Ph out

Parameters		Units	Rating	
Model No.			TEJ 4000 48V	
System Rating		KVA	3.75	
Operating DC voltage		V	48	
Photovoltaic input				
Input Open Circuit Voltage Range(Min-Max)		VDC	80-160	
Maximum PV power recommended		KW	3.75	
Number of charge controller			1	
Solar Charge Controller rating		A	100	
MPPT based charge controller				
Switching element			IGBT	
Controller			DSPIC	
Type of Charger			rMPPT	
Peak Efficiency		%	95	
Parameter			Configurable	
Battery Low Buzzer		V	Batt Low Cut + 0.2V/BATTERY	
Battery Low Cut**		V	10.0-11.7	
Battery High Cut (INV.)		V	SPV Present-SPV CHG. REF +1.3V for 15Sec, SPV CHG. REF +1.8V for 2Sec	
			SPV Absent-SPV CHG. REF +0.5V for 15Sec, SPV CHG. REF +1.2V for 2Sec	
Battery Charging Voltage by SPV		V	12.8-16.0	
Battery Charging Current by SPV		A	12-60	
Battery Charging Voltage by GRID		V	12.5-15.5	
Battery Charging Current by GRID		A	6-15	
Grid Low Cut Voltage (IT Load Disable/Enable)		V	120-200 / NA	
Grid High Cut Voltage (IT Load Disable/Enable)		V	245-280 / NA	
Output Voltage Low(Inverter Mode)		V	170-190	
Output Voltage High(Inverter Mode)		V	250-260	
Grid Disconnect (Solar Available)			@14.5 / Battery for 2 minutes OR 13.5/Battery-100% Current	
Grid Connect (PCU Mode / Smart Mode)		V	11.5	
Grid Charger		Configurable	Enable / Disable	
IT Load			Enable / Disable	
Operation Mode			SMART/PCU/HYBRID	
Input Source			GRID/GENSET	
Li Ion Parameter			100AH	
No. of Cells			15	
Battery Low Buzzer		V	45.75	
Battery Low Cut**		V	44.25	
Battery Charging Voltage by SPV		V	53.25	
Battery Charging Current by SPV		A	20	
Battery Charging Voltage by Grid		V	52.5	
Battery Charging Current by Grid		A	10	
Inverter				
Switching element			MOSFET	
Control			PWM	
Nominal output voltage		VAC	220V 1 phase, 3 wire sinewave	
Nominal frequency		Hz	50.0	
Output Load Current		A	13.5	
Voltage regulation (No load to full load)		%	<2	
Output voltage distortion with 100% linear load		%	<3	
Overload Capacity (IT LOAD ENABLE)			100-110 :10 min 110-120 : 2 min 120-150 : 30 sec 150-250 : 2sec 250-350 : 1sec >350 : 20ms	
Overload Capacity (IT LOAD DISABLE)		%	100-120(2Time auto Reset): 60sec 120-150(2Time auto Reset): 30sec 150-250 : 2sec 250-350 : 1sec >350 : 20ms	
Peak Efficiency		%	>88	
Noise @ 1meter		dB	50	
Cooling			Temp Controlled, Fan	
Protections			Overload, Battery low, Battery high, Output low, Output high, Output Short Circuit, Overheat, Under Frequency, Over Frequency, Solar panel reverse	
Display Parameters			Battery Voltage, Charging Current, Discharging Current,Charging KWH, Discharging KWH, Solar Voltage, Solar Current, Instantaneous Power, Cumulative Power, Grid Voltage, Grid Current, Grid Frequency, Output Voltage, Output Current, Output Frequency, IT Load En/Dn Grid Charger En/Dn, Operating Mode PCU/SMT/HYD	
Switches			Reset for System ON/OFF, up, Down, Back, Enter (for LCD Configuration)	
Indications			System ON, Inv. ON, SPV Charging, Grid Charging, Batt. Low/High, Overload, Overheat, Mains Low, Mains High, Under frequency, Over frequency	
Environment				
Operating Temperature		°C	0-50	
Max Relative Humidity @25°C (non condensing)		%	95	
Dimension (L X W X H)		Inch	11.7 x 11 x 23.2	
Weight		Kg.	38	
			42	

*Specification are subject to change without prior notice due to constant improvement in design & technology.

**Once Battery Get Full Charged then Batt Low cut as per specification otherwise battery low buzzer 11.55V Per Batt. & Batt low cut 11.50V Per Batt.

DHRUVA (rMPPT Solar PCU)

**“Most Featureful
rMPPT Solar PCU”**

**Available in
5kVA - 20kVA**



FEATURES

- DSPic based Pure Sine Wave Design.
- Inbuilt in rMPPT charge controller (upto 30% more efficient).
- Maximum preference to Solar Power.
- 30 days data logs inbuilt and AC& DC energy meter inbuilt.
- Wi-Fi based remote monitoring.
- Comply with IEC 61683 and IEC 60068-2-(1,2,14,30) standards.
- Reverse AC Voltage Protection.
- User friendly & Easily accessible LCD Display with all AC & DC
- Parameter Configurable by Display Switchs & Digital LCD (20X4).
- User Friendly Control :- Output Voltage, Chg. Voltage - SPV/Grid, Chg. Current - SPV/Grid, Grid Reconnect, Batt. Low.
- Priority based working modes - Smart/PCU/Hybrid (for saving energy & money).
- Grid Charging, IT Load - Enable/Disable by LCD.



TECHNICAL SPECIFICATION

DHRUVA SOLAR PCU (1Ph in 1Ph out)

Parameters		Units	Rating								
Model No (DRV)			5000 96V	8000 96V	8000 120V	10000 120V	10000 180V	15000 180V	15000 240V	20000 240V	
System Rating		KVA	5	7.5		10		15		20	
Operating DC Voltage		V	96		120		180		240		
Photovoltaic Input											
Input Voltage Range (Min-Max)		VDC	160-400		200-400		300-625		400-650		
Maximum PV Power Recom.		KW	5.0	7.5		10		15		20	
Solar Charge Controller Rating		A	50	75	60	80	50	80	60	80	
MPPT Based Charging Controller											
Switching Element			IGBT								
Controller			DSP								
Type of Charger			rMPPT								
Efficiency		%	95								
Parameter			Configurable							Default Value	
Battery Low Buzzer		V	Batt. Low Cut +0.2							11.2	
Battery Low Cut**		V	10-11.7							11.0	
Battery High Cut (INV.)		V	SPV Present-SPV CHG. REF +1V for 15Sec, SPV CHG. REF +1.5V for 2Sec							16	
			SPV Absent-SPV CHG. REF for 15Sec, SPV CHG. REF +0.2V for 2Sec							14.7	
Battery Charging Voltage by SPV		V	12.8-16							14.5	
Battery Charging Current by SPV		A	12-60							18	
Battery Charging Voltage by Grid		V	12.5-15.5							14	
Battery Charging Current by Grid		A	6-15							10	
Grid Low Cut Voltage	(IT Mode/	V	NA/120-200							175/120	
Grid High Cut Voltage	Normal)	V	NA/245-280							260/280	
Grid Charging			Enable/Disable							Enable	
IT Load			Enable/Disable							Disable	
Operating Mode			Smart/PCU/Hybrid							Smart	
Output Voltage Low		V	170-190							185	
Output Voltage High		V	250-260							255	
No Load Shut Down			Enable/Disable							Disable	
Input Source			Grid/Genset							Grid	
Li Ion Parameter			100AH								
No. of Cells			30		38		56		75		
Battery Low Buzzer		V	91.5		115.9		170.8		228.75		
Battery Low Cut**		V	88.5		112.1		165.2		221.25		
Battery Charging Voltage by SPV		V	106.5		134.9		198.8		266.25		
Battery Charging Current by SPV		A	20		20		20		20		
Battery Charging Voltage by Grid		V	105		133		196		262.5		
Battery Charging Current by Grid		A	10		10		10		10		
Battery											
Grid Disc. (Solar Available) PCU/SMART			@14.5/Battery for 2minutes or 13.5/Battery-100% Current								
Grid Rec. (PCU Mode/ Smart Mode)		V	11-12						11.5		
Inverter											
Switching Element			Mosfet			IGBT					
Control			PWM								
Nominal Output Voltage		VAC	220, 1Phase, 3Wire Pure Sine Wave								
Nominal Frequency		Hz	50.0								
Load Current		A	18	27	27	36	36	54	72		
Voltage Regulation		%	1								
Output Voltage Distortion with 100% Linear Load		%	<3								
Overload Capacity (IT LOAD DISB)			100-120(2time auto reset) : 60sec 120-150(2time auto reset) : 30sec 150-200 : 2sec 200-300 : 1sec 300-400 : 250ms >400 : 20ms								
Overload Capacity (IT LOAD ENB)		%	100-110 : 10 Min 110-120 : 2 Min 150-200 : 2Sec 200-300 : 1Sec 300-400 : 250ms >400 : 20ms								
Peak Efficiency		%	>88								
Noise @ 1meter		dB	50								
Cooling			Temp Controlled, Fan								
Protections			Overload, Battery Low, Battery High, Output Low, Output High, Output Short Ckt., Overheat, Under Frequency, Over Frequency, Solar Panel Reverse								
Display Parameters			Battery Voltage, Charging Current, Discharging Current, Charging KWH, Discharging KWH, Solar Voltage, Solar Current, Instantaneous Power, Cumulative Power, Grid Voltage, Grid Current, Grid Frequency, Output Voltage, Output Current, Output Frequency IT Load En/Dn Grid Charger En/Dn, Operating Mode PCU/SMT/HYD								
Switches			Reset for System ON/OFF, UP, DOWN, BACK, ENTER (for LCD Configuration)								
Indications			System ON, Inverter ON, SPV Charging, Grid Charging, Battery Low/High, Overload, Overheat, Mains Low, Mains High, Under Frequency, Over Frequency, Fault								
Environment											
Operating Temperature		C	0-50								
Max Relative Humidity @25°C(non condensing)		%	95								
Degree of Protection			IP21								
Data Loggin		Inch	30 Day Data Storage								
Dimension (LxWxH)		Kg.	18 X 10 X 18	24 X 13 X 23			24 X 13 X 26		32 X 16 X 25		
Weight (Approx)			50	71	65	80	103	120	165		

*Specification are subject to change without prior notice due to constant improvement in design & technology.

**Once Battery Get Full Charged then Batt Low cut as per specification otherwise battery low buzzer 11.3V Per Batt. & Batt low cut 11.2V Per Batt.

GARUDA (rMPPT Solar PCU)

“A Smart PCU - Which Stores as well as Exports Electricity”

**Available in
7.5kVA - 50kVA**



FEATURES

- DSPic based Pure Sine Wave Design.
- Inbuilt in rMPPT charge controller (upto 30% more efficient*).
- Grid Interactive.
- Maximum Preference to Solar Power.
- WiFi based remote monitoring.
- RS485 based monitoring (optional).
- Process to Certification - IEC 61683, 61727, 60529, 60068-2 (1,2,14,30) & 62116 standards.
- User Friendly & Easily accessible LCD Display with all AC and DC Parameter Configurable by Display Switches & Digital LCD (20X4).
- User Friendly Control :- Output Voltage, Chg. Voltage - SPV/Grid, Chg. Current - Grid Reconnect, Batt. Low.
- Reverse AC Voltage Protection.
- Priority based working modes - Smart/PCU/Hybrid (for saving energy & money).
- Grid Export Mode, Grid Charging & IT Load - Enable/ Disable by Display Switch.



TECHNICAL SPECIFICATION

GARUDA SOLAR PCU (3Ph in 3Ph out)

Parameters		Units	Rating			
System Rating		KVA	7.5	10	15	
Operating DC Voltage		VDC	96	120	180	
Photovoltaic Input						
Input open circuit voltage range(Min-Max)		Voc	160-360	200-360	300- 540	
Maximum PV Power Recommended / No. of Charge Controller			7.5KW / 1	10KW / 1	15KW / 1	
Switching Element / Type of Charger / Solar Charge Controller Rating			IGBT / rMPPT / 80A			
Peak Efficiency (DC to DC)		%	95			
PANEL CONFIGURATION (S-SERIES, P-PARALLEL)			400W-6S X 3P 440W-6S x 3P 540W-7S x 2P	335W-6S X 5P, 390/400W-5S x 5P 540W-5S x 4P	335W-9S X 5P, 390/400W-8S or 7S x 5P 540W-7S x 4P	
Grid parameter			Configurable			Default
Input Voltage (R,Y,B w.r.t.. N) Nominal		VAC	220V/ Phase			
Frequency Range (R,Y,B w.r.t.. N)		Hz	50 ±3			
Supply Phase & Connection			3Phase / 4Wire			
Switching Element / Bypass Element / Grid charger Efficiency (AC-DC)			IGBT/ SCR / >85%			
Grid Low Cut Voltage R-Y-B w.r.t N (IT Mode-Enable/Disable)		Grid Export Mode Disable	VAC	NA/120-200		175/120
Grid High Cut Voltage R-Y-B w.r.t N (IT Mode-Enable/Disable)			VAC	NA/245-280		260/280
Grid Charger			Enable/Disable			Enable
Grid Export			Enable/Disable			Disable
IT Load			Enable/Disable			Disable
Input Source			Grid/Genset(for Genset, Grid Export Mode must be Disable)			Grid
Grid Export Mode Enable Parameter			Configurable			Default
Grid Low Cut/Recover Voltage R-Y-B w.r.t N		AC	185/195			
Grid High Cut/Recover Voltage R-Y-B w.r.t N		VAC	280/275			
Synchronization voltage range		VAC	185-280			
Synchronization frequency range		Hz	50±3			
Battery Parameter			Configurable			Default
Battery Low Buzzer		VDC	Batt.Low Cut+0.2			11.2
Battery Low Cut		VDC	10-11.7			11
Battery High Cut(Inverter)		VDC	SPV Present- SPV Chg. Ref.+ 1.0V for 15Sec., SPV Chg. Ref.+1.5V for 2Sec			16
			SPV Absent- SPV Chg. Ref for 15Sec, SPV Chg. Ref + 0.2V for 2Sec			14.7
Battery Charging Voltage with SPV		VDC	12.8-16			14.5
Battery Charging Current with SPV		A	12-60			18
Battery Charging Voltage with Grid		VDC	12.5-15.5			14.2
Battery Charging Current with Grid		A	6-15			10
Operation Mode			Smart/Hybrid/PCU			Smart
Grid Disconnect (Solar Available) PCU/SMART		VDC	@14.5V/Battery for 2 minutes or 13.5V/Battery with 100% Charging Current			
Grid Reconnect (PCU Mode/SMART Mode)		VDC	11-12			11.5
Temperature Compensation			@3mV/cell/°C			
Inverter Parameter			Configurable			Default
Switching Element / Control		VAC	IGBT/ PWM			
Nominal Output Voltage (R,Y,B w.r.t.. N)		VAC	220V,230V,240V/ Phase			230V
Output Voltage Low Cut (R,Y,B w.r.t.. N) (Inv. Mode)		VAC	170-190			185
Output Voltage High Cut (R,Y,B w.r.t.. N)(Inv. Mode)			250-260			255
Output Supply Phase / Output Waveform		Hz	3Phase / 4Wire / Pure Sine Wave			
Frequency		A	50± 0.05			
Output Current Per Phase (R,Y,B)		%	8.6	11.6	17.4	
Voltage Regulation		%	±1			
THDv		%	Less than 3% Linear load			
Overload Capacity (IT LOAD DISABLE)		%	100 - 120 % @ 60 Sec (2 Times Retry), 120 - 150 % @ 30 Sec(2 Times Retry),150 - 200 % @ 2 Sec			
Overload Capacity (IT LOAD ENABLE)		%	100 - 110 % @ 10 Min,110 - 120 % @ 2Min, 120 - 150 % @ 30 Sec			
Overload Capacity (Grid Tie ON)		%	200 - 300 % @ 10 Min,300 - 400 % @ 1Min,>400% @250ms			
Peak Efficiency			>85			
Manual Bypass			Rotary Switch			
Cooling			Temperature Controlled Fan			
Protections			Overload, Battery Low, Battery High, Output AC Low, Output AC High, Input AC Low, Input AC High, SPV High, SPV Low, Output AC Short Circuit, Input AC Short Circuit, Over temperature, Under Frequency, Over Frequency, Grid/Solar Charger Open Circuit, NTC Open, Solar Panel Reverse, Anti-islanding, Surge Protection			
Display Parameters			Input R Y B Voltage/Current/Frequency/Import Power/Export Power/Import Energy/Export Energy, Output R Y B Voltage/Current/Frequency/Power/Energy, Solar Voltage/Current/Power/Energy, Battery Voltage/Charg. Current/ Discharging Current/Charging KWh/Discharging Kwh, Inverter Status , Grid Charger Status, Solar Charger Status			
Switches			Reset Switch for System ON/OFF, UP, DOWN, BACK, ENTER(for LCD Configuration)			
LED Indications			System ON, Inverter ON, Grid Charger ON, Grid Tie ON, SPV Charger ON, Grid High/Low R Y B, Grid Frequency under and over R Y B, Output High/Low R Y B, Battery Low/High ,SPV Low/ High, Inverter/Grid charger Overheat, MPPT Overheat, Fault, Overload R Y B, HOE R Y B			
Environment						
Operating Temperature		°C	0 - 50			
Max. Relative Humidity @25°C (non condensing)		%	95			
Noise at 1 Meter / Degree of Protection			60 dBA / IP20			
REMOTE MONITORING SYSTEM (RMS)			Wi Fi			
Data Log			31 Days			
Dimension (L X W X H)		Inch	33 X 16.3 X 27.5			
Weight		Kg	90	105	125	

*Specification are subject to change without prior notice due to constant improvement in design & technology.

TECHNICAL SPECIFICATION

GARUDA SOLAR PCU (3Ph in 3Ph out)

Parameters		Units	Rating				
System Rating		KVA	20		30	40	50
Operating DC Voltage		VDC	240				
Photovoltaic Input							
Input open circuit voltage range(Min-Max)		Voc	400-720				
Maximum PV Power Recommended / No. of Charge Controller			20KW / 1		30KW / 1	40KW / 1	50KW / 1
Switching Element / Type of Charger / Solar Charge Controller Rating			IGBT / rMPPT / 80A		IGBT / rMPPT/ 125A	IGBT / rMPPT/ 160A	IGBT / rMPPT / 200A
Peak Efficiency (DC to DC)		%	95				
Panel configuration			335W-12 Panel in Series X 5 String, 440W-11 Panel in series x 4 string 540W-12 Panel in series x 3 string	335W-13 Panel in Series X 7 String, 440W-10 Panel in series x 7 string 540W-11 Panel in series x 5 string	335W-12 Panel in Series x 10 String, 440W-10 Panel in series x 9 string 540W-11 Panel in series x 7 string	335W-12 Panel in Series X 12 String, 440W-10 Panel in series x 11 string 540W-10 Panel in series x 9 string	
Grid parameter							Default
Input Voltage (R,Y,B w.r.t.. N) Nominal		VAC	220V/ Phase				
Frequency Range (R,Y,B w.r.t.. N)		Hz	50 ±3				
Supply Phase & Connection			3Phase / 4Wire				
Switching Element / Bypass Element / Grid charger Efficiency (AC-DC)			IGBT/ SCR / >85%				
Grid Low Cut Volt. Range R-Y-B w.r.t N (IT Mode-Enable/Disable)	Grid Export Mode Disable	VAC	NA/120-200				175/120
GridHigh Cut Volt. Range R-Y-B w.r.t N (IT Mode-Enable/Disable)		VAC	NA/245-280				260/280
Grid Charger			Enable/Disable				Enable
Grid Export Mode			Enable/Disable				Disable
IT Load			Enable/Disable				Disable
Input Source			Grid/Genset(for Genset, Grid Export Mode must be Disable)				Grid
Grid Export Mode Enable Parameter							
Grid Low Cut/Recover Voltage R-Y-B w.r.t N		AC	185/195				
Grid High Cut/Recover Voltage R-Y-B w.r.t N		VAC	280/275				
Synchronization voltage range		VAC	185-280				
Synchronization frequency range		Hz	50±3				
Battery Parameter							Default
Battery Low Buzzer		VDC	Batt.Low Cut+0.2				11.2
Battery Low Cut		VDC	10-11.7				11
Battery High Cut(Inverter)		VDC	SPV Present- SPV Chg. Ref.+ 1.0V for 15Sec., SPV Chg. Ref.+1.5V for 2Sec				16
			SPV Absent- SPV Chg. Ref for 15Sec, SPV Chg. Ref + 0.2V for 2Sec				14.7
Battery Charging Voltage Range with SPV		VDC	12.8-16				14.5
Battery Charging Current Range with SPV		A	12-60				18
Battery Charging Voltage Range with Grid		VDC	12.5-15.5				14.2
Battery Charging Current Range with Grid		A	6-15				10
Operation Mode			Smart/Hybrid/PCU				Smart
Grid Disconnect (Solar Available) PCU/SMART		VDC	@14.5V/Battery for 2 minutes or 13.5V/Battery with 100% Charging Current				
Grid Reconnect Range (PCU Mode Smart Mode)		VDC	11-12				11.5
Temperature Compensation			@3mV/cell/°C				
Inverter Parameter							Default
Switching Element / Control			IGBT/ PWM				
Nominal Output Voltage (R,Y,B w.r.t.. N)		VAC	230V/ Phase				
Output Volt. Range Low Cut R-Y-B w.r.t N (Inv. Mode)		VAC	170-190				185
Output Volt. Range High Cut R-Y-B w.r.t N (Inv. Mode)		VAC	250-260				255
Output Supply Phase / Output Waveform			3Phase / 4Wire / Pure Sine Wave				
Frequency		Hz	50± 0.05				
Output Current Per Phase (R,Y,B)		A	23	34.7	46.3	57.9	
Voltage Regulation		%	±1				
THDv		%	Less than 3% Linear load				
Overload Capacity (IT LOAD DISABLE)		%	100 - 120 % @ 60 Sec (2 Times Retry), 120 - 150 % @ 30 Sec(2 Times Retry),150 - 200 % @ 2 Sec				
Overload Capacity (IT LOAD ENABLE)		%	100 - 110 % @ 10 Min,110 - 120 % @ 2Min, 120 - 150 % @ 30 Sec				
Overload Capacity (Grid Tie ON)		%	200 - 300 % @ 10 Min,300 - 400 % @ 1Min,>400% @250ms				
Peak Efficiency		%	>85				
Manual Bypass			Rotary Switch				
Cooling			Temperature Controlled Fan				
Protections			Overload, Battery Low, Battery High, Output AC Low, Output AC High, Input AC Low, Input AC High, SPV High, SPV Low, Output AC Short Circuit, Input AC Short Circuit, Over temperature, Under Frequency, Over Frequency, Grid/Solar Charger Open Circuit, NTC Open, Solar Panel Reverse, Anti-islanding, Surge Protection				
Display Parameters			Input R Y B Voltage/Current/Frequency/Import Power/Export Power/Import Energy/Export Energy, Output R Y B Voltage/Current/Frequency/Power/Energy, Solar Voltage/Current/Power/Energy, Battery Voltage/Charg. Current/ Discharging Current/Charging KWh/Discharging Kwh, Inverter Status , Grid Charger Status, Solar Charger Status				
Switches			Reset Switch for System ON/OFF, UP, DOWN, BACK, ENTER(for LCD Configuration)				
LED Indications			System ON, Inverter ON, Grid Charger ON, Grid Tie ON, SPV Charger ON, Grid High/Low R Y B, Grid Frequency under and over R Y B, Output High/Low R Y B, Battery Low/High ,SPV Low/ High, Inverter/Grid charger Overheat, MPPT Overheat, Fault, Overload R Y B, HOE R Y B				
Environment							
Operating Temperature		°C	0 - 50				
Max. Relative Humidity @25°C (non condensing)		%	95				
Noise at 1 Meter / Degree of Protection			60 dBA / IP20				
Dimension (L X W X H)		Inch	33 X 16.5 X 27.5	27.5 X 27.5 X 67.5			
Weight		Kg	145	300	350	400	

*Specification are subject to change without prior notice due to constant improvement in design & technology.

MIRAAJ (Hybrid Solar PCU)

“Most Featureful rMPPT Hybrid Solar PCU”

Available in
2kVA - 5kVA



FEATURES

- DSPic based Pure Sine Wave Design.
- Inbuilt in rMPPT charge controller (upto 30% more efficient).
- Grid Interactive.
- Maximum Preference to Solar Power.
- WiFi based remote monitoring.
- Certified by IEC 61683, 61727, 60529, 60068-2 (1,2,14,30) & 62116 standards.
- User Friendly & Easily accessible LCD Display with all AC and DC Parameter Configurable by Display Switches & Digital LCD (20X4).
- User Friendly Control :- Output Voltage, Chg. Voltage - SPV/Grid, Chg. Current - SPV/Grid, Grid Reconnect, Batt. Low.
- Reverse AC Voltage Protection.
- Priority based working modes - Smart/PCU/Hybrid (for saving energy & money).
- Grid Export Mode, Grid Charging & IT Load - Enable/ Disable by Display Switch.



TECHNICAL SPECIFICATION

MIRAAJ HYBRID SOLAR PCU (3Ph in 1Ph out)

Parameters		Units	Rating			
Model (UGE)			FGE2048		FGE3048	FGE5048
System Rating		KVA	2		3	5
Operating DC Voltage		V	48			
Photovoltaic Input						
Input Voltage range (Min.-Max.)		V _{oc}	80-195			
Maximum PV power recommended		kW	2		3	5
Solar Charge Controller Rating		A	40		60	100
MPPT Based Charge Controller						
Switching Element			IGBT			
Controller			DSP			
Type of Charger			rMPPT			
Peak Efficiency		%	95			
Parameters			Configurable			Default Value
Battery Low Buzzer		V	Batt. Low Cut +0.2			11.2
Battery Low cut		V	10-11.7			11
Battery High cut (INV.)		V	SPV Present-SPV CHG. REF +1.3V for 15Sec, SPV CHG. REF +1.8V for 2Sec			15.5
			SPV Absent-SPV CHG. REF +0.5V for 15Sec, SPV CHG. REF +1.2V for 2Sec			15
Battery Charging Voltage with SPV		V	12.8-16			14.5
Battery Charging Current with SPV		A	12-60			18
Battery Charging Voltage with Grid		V	12.5-15.5			14
Battery Charging Current with Grid		A	6-15			10
Grid low cut volt. (IT Mode Enb/Dis)	GRID EXPORT MODE DISABLE	V	NA/120-200			175/120
Grid high cut volt. (IT Mode Enb/Dis)		V	NA/245-280			260/280
Grid Charging		V	Enable/Disable			Enable
IT Mode			Enable/Disable			Disable
Operating mode			Smart/PCU/Hybrid/Grid Export			Smart Mode
Input Source			Grid/Genset(for Genset, Grid Export Mode must be Disable)			Grid
Output voltage low		V	170-190			185
Output voltage high		V	250-260			255
Li Ion Parameter			100AH			
No. of Cells			15			
Battery Low Buzzer		V	45.75			
Battery Low Cut**		V	44.25			
Battery Charging Voltage by SPV		V	53.25			
Battery Charging Current by SPV		A	20			
Battery Charging Voltage by Grid		V	52.5			
Battery Charging Current by Grid		A	10			
Grid Export Mode Enable						
Grid Low/recover		V	185/195			
Grid High/recover		V	280/275			
Synchronization voltage range		V	185-280V			
Synchronization frequency range		HZ	47 to 53			
Maximum Charging Current from Grid (Import)		A	6-15			10
Battery						
Grid Disconnect (Solar Available) PCU/SMART			@14.5V/Battery for 2 minutes OR 13.5V/Battery-100% Current (if Grid Chg. Volt. Ref. set to 14.0V)			
Grid Reconnect (PCU Mode / Smart Mode), Import ON (Grid Export mode)		V	11-12			11.5
Inverter						
Switching Element			MOSFET			
Control			PWM			
Nominal Output voltage			220, 1Phase, 3 Wire, Pure Sine Wave			
Nominal frequency		Hz	50			
Load Current		A	9	13.5	18	
Voltage regulation		%	1			
Output voltage distortion with 100% linear load		%	<3			
Overload capacity		%	IT Load 100-120(2Time auto Reset) : 60sec Disable 120-150(2Time auto Reset) : 30sec	IT Load 100 - 110%:10min; 110 - 120%: 2min; 120 - 150%:30sec;	Grid Tie Over Load Indication @>200% ON >200 - 300% : 10min >300 - 400% : 1min >400% : 250ms	
Peak efficiency		%	>85			
Noise @ 1 meter		dB	50			
Cooling			Either Load Based (On ≥ 60, Off ≤ 50) or Temperature Based (On ≥ 55°C ±3°C, Off ≤ 42°C ±3°C)			
Protections			Overload, Battery Low, Battery High, Output Low, Output High, Input Low, Input High, SPV Low, SPV High, Output Short Ckt., Input Short Ckt., Over Temp., Under Frequency, Over Frequency, Solar Panel Reverse, Anti-islanding, Surge Protection, Grid/Solar Charger Open Circuit, NTC Open			
Display Parameters			Battery Voltage, Charging Current, Discharging Current, charging KWH and discharging KWH			
			Solar Voltage, Solar Current, Instantaneous Power, Cumulative Energy			
			Grid Voltage, Grid Current, Frequency, Import Power, Import Energy ,			
			Export Power, Export Energy			
			Output Voltage, Output Current, Frequency, Instantaneous Power & Commutative Energy			
			Grid, Inverter & SPV Charger Status			
Switches			System Info : Grid CHG-EN, IT Load-EN, Input Source-Grid, Operation Mode-Smart			
Indications			Reset for System ON/OFF, UP, DOWN, BACK, ENTER (for LCD Configuration) System ON, Inv. ON, SPV Charging, Grid Charging, Grid Tie ON, Battery Low/High, Overload / Overheat, Mains Low / Mains High, Under frequency/Over frequency, Operating modes (smart, Hybrid, PCU and Gridexport), Fault, HOE			
Environment						
Operating temperature		°C	0-45			
Max. Relative Humidity @ 25 C (non condensing)		%	95			
Degree of Protection			IP-21			
BIS Certification			Yes			
Data Monitoring			Wi-Fi Based			
Dimension (LxWxH)		Inch	18 x 10 x 20			23 x 13 x 26
Weight (Approx)		kg	43	50	60	

*Specification are subject to change without prior notice due to constant improvement in design & technology.

*If battery is not fully charged, battery low cut voltage is 11.5V/batt. If battery is fully charged, battery low cut voltage is equal to set Voltage.

PWM (Solar Charge Controller)



Available in
12V/24V-10A/20A



FEATURES

- **Controller Based PWM Technology.**
- **Works Efficiently.**
- **LED/LCD Indication.**
- **Over Charging Current Protection.**
- **Over Charging Voltage Protection.**
- **Battery Reverse Protection.**
- **Overload Protection.**
- **SPV Reverse Polarity Protection.**
- **Reverse current flow from Battery Solar Array Protection.**

TECHNICAL SPECIFICATION

PWM (Solar Charge Controller)

General				
Model	CC1224 /10A LED		CC1224/20A LCD	
DC Voltage	12V	24V	12V	24V
Precise	Micro controller			
Operating Temperature	0-50°C			
Storage Temperature	-20° to 70°C			
Battery Type	Tubular			
Battery Capacity	200 AH Max.			
Battery Charging Regulation Mode	PWM			
Operating Solar Input Voltage (Voc) Max	25V	49.5V	25V	49.5V
Solar Module Size(Max)	165W*1	390W*1	165W*2 (Parallel)	390W*2 (Parallel)
Electrical				
Nominal Battery voltage	12/24V DC (Auto Sensing)			
SPV Chg. Voltage Boost	14.5V	29V	15.5V	31V
Charging Current (max)	10A		20A	
Load Current Max.	10A		20A	
Charge Controller Efficiency	>95%			
Idle Consumption	<30mA			
Min. Solar Input Voltage(Voc) @ Startup	17V±2V	30V±2V	17V±2V	30V±2V
Load Condition				
USB Port	5V / 2A			
Battery Low Voltage Load Disconnect	10.8V±0.2V	21.6V±0.4V	10.8V±0.2V	21.6V±0.4V
Battery Low Voltage Load Recovery	12.6V±0.2V	25.2V±0.4V	12.6V±0.2V	25.2V±0.4V
Battery High Voltage Load Disconnect	15.0V±0.2V	30.0V±0.4V	16.0V±0.2V	32.0V±0.4V
Battery High Voltage Load Recovery	14.0V±0.2V	28.0V±0.4V	15.5V±0.2V	31.0V±0.4V
LED Indication				
Solar ON	Green		NA	
Solar Over Load	Red		NA	
Batt. High	Green		NA	
Batt. Low	Red		NA	
Load ON	Green		NA	
Over Load	Red		NA	
Display Parameter				
Batt. Voltage, Batt. Current	NA		Yes	
Solar Status: Absent, Charging OFF, Overload	NA		Yes	
Load Current	NA		Yes	
Charger ON	NA		Yes	
Overload				
100%	Continues			
101%-120%	10 Min ON/1 Min OFF		30 Sec. ON/1 Min OFF	
121%-150%	30 Sec. ON/1 Min. OFF		1 Sec. ON/1 Min. OFF	
150%-200%	2 Sec. ON/1Min. OFF		250mSec. ON/1Min. OFF	
>200%	250mSec. ON 1 Min. OFF			
Protections				
Battery Voltage (High/Low)	Available			
Battery Reverse	Available			
SPV Reverse	Available			
SPV Current (High/Low)	Available			
Reverse Current Flow from Battery to Solar Panel Array	Available			
Load short Circuit through DC Fuce	Available			
Physical				
Weight	130gm		300gm	
Dimension (LXWXH) MM	75x132x36 mm		100x161x50 mm	

Protect Solar Charge Controller from direct Sunlight & Water.

Panel open circuit voltage should not to do be more than specified voltage.

*Specification are subject to change without prior notice due to constant improvement in design & technology.

**Convert your Home Inverter
into Solar Inverter**



FEATURES

- **High speed and high performance micro-controller.**
- **High reliability with longer operational life.**
- **Inbuilt protection to avoid battery undercharge and over-charge.**
- **Inbuilt PWM Technology Charge Controller.**
- **Automatic voltage selection for 12V or 24V.**
- **Solar Prioritization.**
- **Compact design with wall mounting.**
- **Eco friendly.**

TECHNICAL SPECIFICATION

SOLAR MANAGEMENT UNIT

General	
Model	SOL1224-50A
Operating Temperature	0°C to 50°C
Storage Temperature	-10°C to 60°C
System Operating Voltage	12V/24V DC
Battery Type	Tubular/SMF
Battery Capacity Max.	200AH
Battery Charging Regulation Method	4 Stage PWM (Bulk/Absorption/Float/Equalize)
Maximum Solar Power	12V : 800W, 24V : 1700W
Max. Solar Panels Recommended	12V, 25A:150W/165W *3 (Parallel)
	24V, 25A:250W/315W/325W*3 (Parallel)
	12V, 50A:150W/165W *5 (Parallel)
	24V, 50A : 250W*6 , 315W/325W*5, 390W/400W/425W*4 (Parallel)
Electrical	
Nominal Grid Voltage	230V AC 1Φ
Grid Low Cut	90V ± 10V
Grid High Cut	290V ± 10V
Charging Current (Solar)	50A/25A
Charge Controller Efficiency	>95%
Idle Consumption	<20mA
Max. Solar input Voltage (Voc)	17V-25V (12V Batt.)
	31V-49.5V (24V Batt.)
Min. Solar input voltage (Voc) @ Start-up	15V/30V ± 2%
Solar Panel Recovery Voltage	17V/34V ± 2%
Max. Solar Current	50A By Default
Efficiency	>95%
Battery Set Points @ 25°C	
Bulk Voltage Tubular Battery	14.6V/29.2V ± 2%
Absorption Voltage Tubular Battery	14.2V/28.4V ± 2%
Float Voltage Tubular Battery	14V/28V ± 2%
Bulk Voltage SMF Battery	13.7V/27.4V ± 2%
Float Voltage SMF Battery	13.5V/27.0V ± 2%
Absorption Duration	3Hr
Equalize Voltage	14.9V/29.8V ± 2%
Equalize Duration	3Hr
Equalize calender	28 days
Mains reconnect when Solar not present	At any Batt. Voltage
Mains reconnect when insufficient Solar Power	<11.8V/ 23.6V ± 2%
Mains disconnect when sufficient Solar Power For Tubular	>13.8V/27.6V ± 2%
Mains disconnect when sufficient Solar Power For SMF	13.7V/27.4V ± 2%
Display Parameters	Protections
1. Batt. Voltage, Batt. Current, Batt. Type	1. Battery Reverse Polarity
2. Solar Voltage, Solar Current	2. Batt. Reverse Current
3. Mode Selection	3. Over Current of SPV : >56A/28A
4. Solar Status: High, Low, Overload, Overheat	4. Solar High Voltage
5. Saving- KWh	5. SPV Reverse Polarity
6. Mains Present, Low, High, Absent	6. Load Short Circuit through AC Fuse
7. Max. PV Current	7. Solar Low Voltage
	8. Over Temperature
Physical	
Ingress Protection	IP-20
Fixing	Wall Mounted
Weight (Kg)	2.33
Dimension (LxWxH) Inch	9.6 X 6.9 X 4.9

*Specification are subject to change without prior notice due to constant improvement in design & technology.

SMU (rMPPT) Solar Management Unit

**Convert your Home Inverter
into Solar Inverter**



**Available in
12V/24V-40A**

FEATURES

- **Inbuilt rMPPT Technology Charge Controller.**
- **High reliability with longer operational life.**
- **Compact design with Wall Mounting.**
- **3 Stage Charging BLK, ABS, FLT.**
- **Transient and Surge Protection.**
- **Over Temperature Protection.**
- **Automatic Voltage selection for 12V or 24V.**
- **Inbuilt protection to avoid battery undercharge & over-charge.**
- **High speed and high performance micro-controller.**
- **Solar Prioritization.**
- **Eco friendly.**

TECHNICAL SPECIFICATION

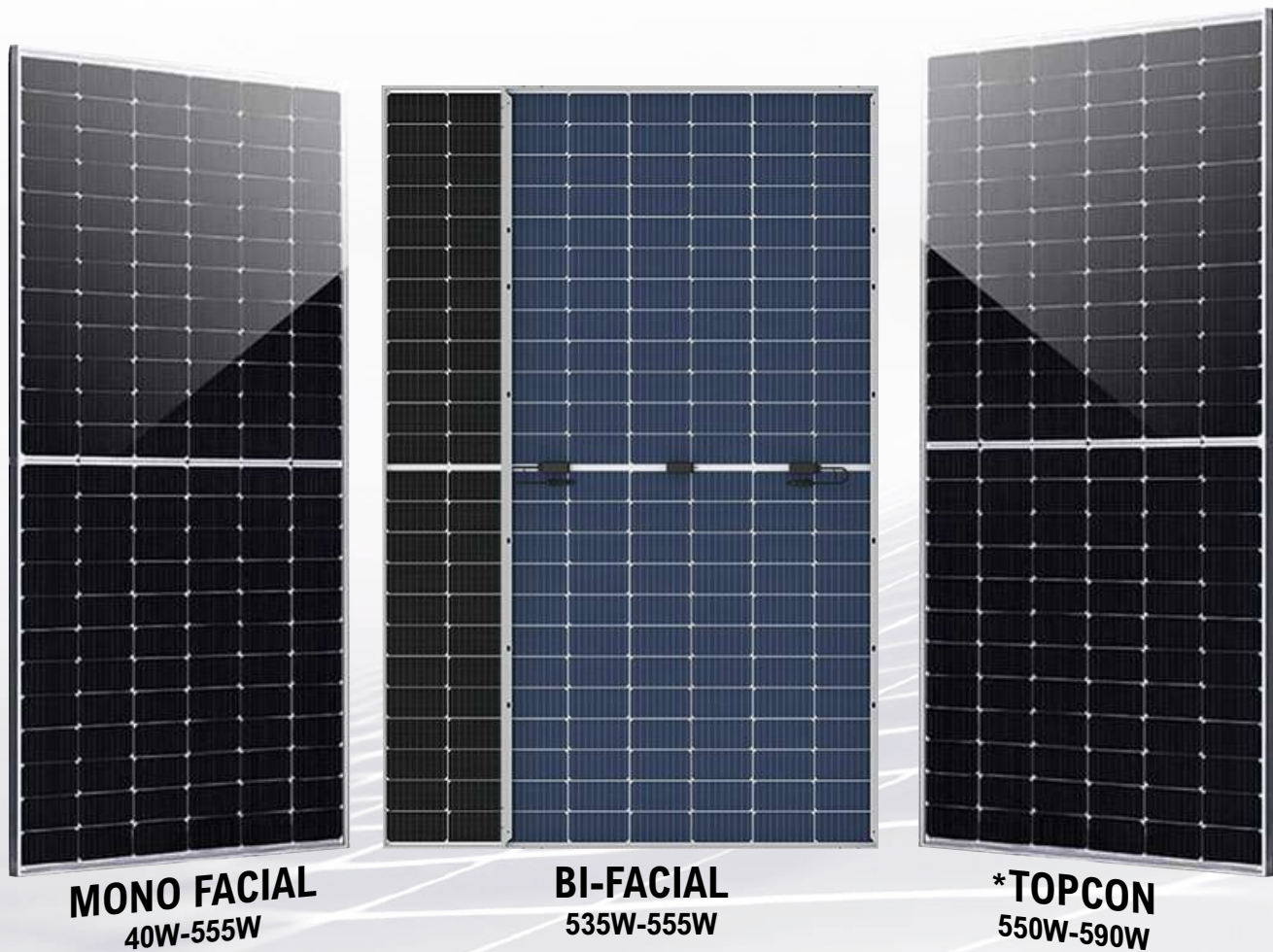
SOLAR MANAGEMENT UNIT

General		
Model	SOL1224-40A-MPPT	
Nominal System Voltage	12V DC	24V DC
Battery Capacity Max.	200AH	
Battery Type	Tubular/SMF	
Battery Charging Regulation Method	3 Stage (Bulk/Absorption/Float)	
Solar Charger Type	rMPPT	
Solar Power (Max.)	600W	1200W
Max. Solar Panel (Recommended)	150W/165W X2 (Series) X 2 (Parallel) 315W/325W/330W/335W X 2 (Parallel) 390WX1	315W/325W/330W/335WX4 (Parallel) 390W/425WX3. 540WX2 (Parallel) 315W/325W/330W/335WX 2 (Series) X 2 (Parallel)
Max. Solar input Voltage(Voc)	15V-49.5V	30V-99V
Idle Consumption	<20mA	
Efficiency	>95%	
Battery set points		
Tubular	Boost Voltage :- 14.5V ± 0.2V	Boost Voltage :- 29.0V ± 0.2V
	Float voltage :- 14V ± 0.2V	Float voltage :- 28V ± 0.2V
	Bulk Absorption :14.8V ± 0.2V	Bulk Absorption :29.6V ± 0.2V
SMF	Boost/Float Voltage : 13.8V ± 0.2V	Boost/Float Voltage : 27.6V ± 0.2V
	Bulk Absorption : 14.1V ± 0.2V	Bulk Absorption : 28.2V ± 0.2V
Battery Current Max.	40A	
Grid		
Mains Low cut /Recovery	90V/100V ± 10V	
Mains high cut /Recovery	290V/280V ± 10V	
Mains reconnect when Solar not present	At any Batt. Voltage	
Mains Disconnect	If Battery reaches boost level then after <5 min. Mains will be disconnected.	
Mains Reconnect	Battery volt. : 11.8V	Battery volt. : 23.6V
Display Parameters		
Display Type	LCD	
Display Parameters	Batt. Voltage, Batt. Current, Batt. Type(TUB/SMF), Solar Voltage, Solar Current, Solar Saving- KWh, Mode Selection (Auto/Manual), Mains Present, Absent	
Protections		
Protections	Battery Reverse Polarity (Fuse blown), Batt. Reverse Current, SPV Over Current, Solar High Voltage, SPV Reverse Polarity, Over Temperature, Mains High Cut, Mains Low Cut	
Operating Temperature	0°C to 50°C	
Storage Temperature	0°C to 60°C	
Ingress Protection	IP-20	
Fixing	Wall Mounted	
Weight (Kg)	2.6	
Dimension (LXWXH) Inch	9.25 x 9 x 4.15	

* Specifications are subject to change without prior notice due to constant improvement in design & technology.

MONO PERC & TOPCon SOLAR PANEL

Available in 40W-590W (DCR & Non-DCR)



FEATURES

- Half Cut Cells Are More Physically Durable, More Resistant To Cracking Reduce Power Loss increase module efficiency (Mono-Perc efficiency up to 21.7 %)
- Strengthened Mechanical Support - 5400 Pa snow load, 2400 Pa wind load
- Higher lifetime Power Yield 2.0% first year degradation, 0.55% linear degradation
- Quality and Reliability assurance in standard weather condition
- IP68, IP67 for Long Term Endurance
- 27 Years Performance Warranty



Scan Qr Code
For Technical Data

SOLAR TUBULAR POWER

HEAVY DUTY BATTERY



SOLAR BATTERY RANGE (FJ SERIES)

Model	Nominal Voltage	Capacity @ C20 at 27°C	Warranty	Dimensions L x W x H	Container	Plate Combination	Gross Weight [#] ± 3%
	V	AH	Months	MM			Kg
FJ16030	12	150	30 + 30	503 x 190 x 410	IT 500	2+3	56.5
FJ18036	12	160	36 + 36	503 x 190 x 410	IT 500	2+3	57.7
FJ22036	12	200	36 + 36	503 x 190 x 410	IT 500	3+4	64.5
FJ25036	12	240	36 + 36	503 x 190 x 410	IT 500	3+4	70

SOLAR BATTERY RANGE (BHIM)

Model	Nominal Voltage	Capacity @ C10 at 27°C	Warranty	Dimensions L x W x H	Container	Plate Combination	Gross Weight [#] ± 3%
	V	AH	Months	MM			Kg
BHIM 1560	12	150	60	503 x 190 x 410	IT 500	3+4	64
BHIM 2060	12	200	60	503 x 190 x 410	IT 500	3+4	71

Specification are subject to change without prior notice due to constant improvements in design & technology.

FUJIYAMA POWER SYSTEMS LTD.

Registered Office: 53A/6, Rama Road Ind. Area, Near Sat Guru Ram Singh Marg Metro Station, Near NDPL Grid Office, Delhi – 110015

Sales Office: 2/8A, Plot No-63, 2nd Floor Rama Road Industrial Area Opp. Kirti Nagar Metro Station New Delhi-110015

For Sales- +91 8800 013 836 **For Service -** +91 8510 885 885, **For Sales Enquiry -** sales@fuijiyama.in, **Web :** www.fuijiyama.in

Manufacturing Unit 1 : Khasra No. 182, Vill-Naryal, Parwanoo, Himachal Pradesh-173220, India

Manufacturing Unit 2 : Plot No 51-52, Sector - Ecotech 1 Extension 1, Greater Noida, Distt Gautam Budh Nagar, U.P. - 201310, India

Manufacturing Unit 3 : Plot No. 5 & 14, Sector 6, HSIIDC, IMT BAWAL, Rewari, Bawal, , HR- 123501, India



Scan to Download
the Catalogue