

Solar Hybrid System (PCU-Offgrid) are ideal in case of higher loads. The Hybrid Solar System feature a bank of solar photo voltaic modules tied to a bank of batteries with a controlling interface. The controlling interface is the critical component here. Tasha has designed a superior computerized digital controller with these features:

CONVENIENCE

Solar Hybrid System use both Solar Power as well as A.C. Mains for charging the battery bank according to priority settings which provide the users uninterrupted power supply always.

SALIENT FEATURES

- Smart load sharing compatibility.
- >> Inbuilt Solar Charge Controller with high charging current
- Three stage solar charging (TSSC), suitable for all type of battery charging.
- PV availability, battery charging from solar power indication with display on LCD.
- >> Deep discharge battery charging from A.C, Mains as well as Solar.
- Battery type charging selection (Tubular/Flat/SMF/GEL)
- Triple Modes of operation (EC/SC/HC)
- Smart grid charging with Enable/Disable option.
- User selectable UPS and Normal Mode.
- Resettable AC circuit breaker which reduce service cells.
- Compatible wtih D.G. sets.
- Protections against short-circuit, Mains Fuse Trip, Overload, Reverse Phase, Low Battery Reverse Battery And Over Temperature (With Proper indications with buzzer as well as display on LCD available).
- >> User friendly, feather touch control and selections witches with LED indication on front panel.
- Battery charging even at low voltage.
- >> Grid bypass option available.









SOLAR HYBRID SYSTEMS OFFGRID USI SERIES (LKVA-LCD)

Model Name	Units	USI 450/915	USI 1215	USI 1415	USI 1500	USI 2000	USI 2500	USI 3000
System rating	VA	300/700	900	1100	1450	1600	2100	2500
perating DC voltage	Volts	12	12	12	24	24	24	24
1aximum Solar PV Power	Vdc		25				45	
laximum Solar array power (PV)	Wp	300-700	900	1000	1600	1600	2000	2500
Max PV modules	Nos	2(165W)/4(165W)	5(165W)	6(165W)	5(335W)	5(335W)	6(335W)	8(335W)
ype of solar charger					PWM			
flax current rating of SCC	Adc	20/50			50			70
fficiency of SCC	%				>90			
witching element in Inverter					MOSFE	Т		
ype of Control					PWM			
Iominal Output voltage in inverter mode	Vac	220V ± 7V						
ominal Output Voltage in inverter indue	Hz	50/60 ± 1 (Default is 50Hz) selectable 50/60Hz (Optional)						
requency (Min - Max during Grid by pass) UPS mode	Hz			30/00	47-53/57-			
requency (Min - Max during Grid by pass) Inverter mode	Hz				40-60/50-			
Output voltage regulation	%				180-220			
Output THD (v) at linear load	%				<5%			
reast Factor					3:01			
Verload capacity 125%	Sec				6 (6 Retr			
Overload capacity 150%	Sec				2 (6 Retr			
lattery low voltage alarm per battery	Vdc				10.8 ± 0			
attery low voltage cut per battery	Vdc				10.5 ± 0.2 (With			
atter low cut recovery per battery through Solar	Vdc			1.	2.7 ± 0.2 (or Mains or reset			
	Vdc				14.4 ± 0.			
Max Battery charging voltage by grid per battery					-14.4V/28.8V, GEL-14.2V/28.			
				Settable for Tub	-13.8V/27.6V, GEL-13.8V/27.		3.6V/27.2V	
Max Battery charging current by grid in Hi/Lo option	Adc			0.11.1	16/12 ±2			
				Settab	le for Tub-12/16A, GEL-10/1			
Max Battery charging voltage by Solar per battery (LCD Models)	Vdc				14.4 ± 0. -14.4V/28.8V, GEL-14.2V/28. -13.8V/27.6V, GEL-13.8V/27.	4V, SMF-14.2V/28.4, Flat-14		
lattery High cut with alarm per battery (LCD Models)	Vdc			Settable for Tub	15.5±0.		0.UV/21.2V	
	Vac				14.5±0.			
lattery High cut Recovery per battery (LCD Models)					20±2A			
Max Battery charging current by Solar	Adc							
lax Charging current to battery by Solar+Grid	Adc				20±2A			
Grid low cut voltage (IT load/Normal load)	Vac				180/100 ±			
orid low cut voltage recovery (IT load/Normal load)	Vac				190/110 ±			
Grid high cut voltage (IT load/Normal load)	Vac				265/280 ±			
rid high cut voltage recovery (IT load/Normal load)	Vac				255/270 ±	10		
rid charging Enable/Disable					Yes			
					Yes			
Selection of UPS Load/Normal Load		HC-	Charging current = 20)A ±1A Solar + Mains till	battery boost voltage with	maximum Solar Sharing. S	System will not be disconnect Gr	id in any case
ielection of UPS Load/Normal Load Selection of Operating Mode (LCD Models)		EC-Charging curren	t= 20A ±1A Solar + I t= 20A ±1A Solar + I	Mains till boost voltage, Sy + Batt Mains till boost voltage, Sy	stem will cut off the mains ery and Grid reconnected « stem will cut off the mains	when battery voltage reac	ches boost voltage level and outp	ut load is transferred to So ut load is transferred to So
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Selection of Operating Mode (LCD Models) Input current at no load at Nominal Battery voltage loise @ 1 meter rotections CD Display parameters (LCD Models) indication LEDs perating Temperature range distorage Temperature range dax RH ront panel details (MCB, Display, Selection switch etc) Rear panel details (MCB, Terminals etc) Changeover time from inverter to mains in UPS mode	dB °C °C % ms	EC-Charging curren SC-Charging curren ≤2.2	t= 20A ±1A Solar + I t= 20A ±1A Solar + I + Battery ar ≤2.6 Overload, Battery PV Current, Batter O/P socker	Mains till boost voltage, Sy + Batt Mains till boost voltage, Sy and Grid reconnected <=12 ≤2.4 Deep Discharge, Battery O- ry voltage, Mains voltage, over load, short ckt, fault, et,fuse/Circuit breaker,mai	stem will cut off the mains ery and Grid reconnected • stem will cut off the mains 0V per Battery or Solar fail ≤2.2 ≤50 vercharge,Short Circuit(Tre UPS ON/OFF, UPS Mode, battery low, over temp, PV Tact switch \$ 0.50 0.465 95 Display with tarns & batt. Cable and fan <10 Yes Yes Through sv	when battery voltage reac <=11.8V/11.2V per Battery. when battery voltage reac s or if Solar <5A check if S <=2.5 etry), Battery Hi, PV Reverse Solar on/off Load percen status ct switch	ches boost voltage level and outpositions boost voltage level and outpositions of the source of the	ut load is transferred to So ut load is transferred to So ≤2.8 verse aker,mains & batt. Cable an rminal

Technical Specifications can be changed without prior notice.

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