SOLAR HYBRID SYSTEMS ECO-SMART SERIES (LKVA-LCD) SPEQTA POWER





Solar Hybrid Systems (PCU) 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. Lento has designed a superior computerized digital controller with these features:

Convenience

Solar Hybrid System uses both Solar Power as well as A.C. Mains for charging the battery bank according to priority settings which provids 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
- Battery type charging selection (Tubular /Flat /SMF/GEL)
- ➤ Triple Modes of operation (EC/SC/NC)
- >> Smart grid charging with Enable/Disable option.
- User selectable UPS and Normal Mode.
- Resettable AC circuit breaker which reduce service calls.
- Compatible with 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 selection switches with LED indication on front panel.
- Battery charging even at low voltage.
- Grid bypass option available.



300VA | 700VA | 900VA | 1100VA | 1600VA | 2100VA | 2500VA

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Technical Specifications

Model Name	Units	Eco-Smart 450/915	Eco-Smart 1215	Eco-Smart 1415	Eco-Smart 1600	Eco-Smart 2000	Eco-Smart 2500	Eco-Smart 3000
System rating	VA	300/700	900	1100	1450	1600	2100	2500
Operating DC voltage	Volts	12	12	12	24	24	24	24
Maximum Solar Pv Power	Vdc		25				45	
flaximum Solar array power (PV)	Wp	300-700	900	1000	1600	1600	2000	2500
lax PV modules	Nos	2(165W)/4(165W)	5(165W)	6(165W)	5(335W)	5(335W)	6(335W)	8(335W)
ype of solar charger					PWM			
lax current rating of SCC	Adc	20/50			50			70
fficiency of SCC	%	>90						
witching element in Inverter					MOSFE	Т		
ype of Control		PWM						
ominal Output voltage in inverter mode	Vac	220V ± 7V						
lominal Output Frequency of Inverter	Hz	50/60 ± 1 (Default is 50Hz) selectable 50/60Hz (Optional) 47-53/57-63						
requency (Min - Max during Grid by pass) UPS mode	Hz							
requency (Min - Max during Grid by pass) Inverter mode	Hz				40-60/50-			
utput voltage regulation	%				180-220	J		
lutput THD (v) at linear load	%				<5%			
reast Factor	Sec				3:01	`		
verload capacity 125%					6 (6 Retr			
verload capacity 150%	Sec Vdc				2 (6 Reti			
attery low voltage alarm per battery	Vdc	10.8 ± 0.2						
attery low cut recovery per battery	Vdc	10.5 ± 0.2 (With 4 Retry) 12.7 ± 0.2 (or Mains or reset swich on front panel)						
atter low cut recovery per battery through Solar	Vdc				2.7 \pm 0.2 (or Mains or reset			
lax Battery charging voltage by grid per battery	*40				o-14.4V/28.8V, GEL-14.2V/28. o-13.8V/27.6V, GEL-13.8V/27.	4V, SMF-14.2V/28.4, Flat-14.3 6V, SMF-13.8V/27.6, Flat-13.4		
lax Battery charging current by grid in Hi/Lo option	Adc	16/12 ±2A Settable for Tub-12/16A, GEL-10/16A, SMF-10/14A, Flat-14/10						
lax Battery charging voltage by Solar per battery (LCD Models)	Vdc					.z .4V, SMF-14.2V/28.4, Flat-14.; .6V, SMF-13.8V/27.6, Flat-13.		
attery High cut with alarm per battery (LCD Models)	Vdc				15.5±0.			
attery High cut Recovery per battery (LCD Models)	Vdc				14.5±0.	2		
ax Battery charging current by Solar	Adc				20±2A	1		
ax Charging current to battery by Solar+Grid	Adc	20±2A						
rid low cut voltage (IT load/Normal load)	Vac				180/100 ±	: 10		
rid low cut voltage recovery (IT load/Normal load)	Vac				190/110 ±	: 10		
rid high cut voltage (IT load/Normal load)	Vac	265/280 ± 10						
					255/270 ±	40		
rid high cut voltage recovery (IT load/Normal load)	Vac				200/210 1	: 10		
	Vac				yes	: 10		
örid high cut voltage recovery (IT load/Normal load) Grid charging Enable/Disable Selection of UPS Load/Normal Load	Vac	нс	-Charging current = 20.	A ±1A Solar + Mains till	yes yes		stem will not be disconnect Gri	d in any case
irid charging Enable/Disable	Vac	EC-Charging curren	nt= 20A ±1A Solar + M nt= 20A ±1A Solar + M	Mains till boost voltage, S + Bat Mains till boost voltage, S	yes yes battery boost voltage with ystem will cut off the mains tery and Grid reconnected - ystem will cut off the mains	maximum Solar Sharing. Sy s when battery voltage reach <=11.8V/11.2V per Battery. s when battery voltage reach	vstem will not be disconnect Gri les boost voltage level and outpu les boost voltage level and outpu lar < discharging connect grid	ut load is transferred to Sol ut load is transferred to Sol
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Technical Specifications can be changed without prior notice.

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