

Our Solar Inverters (Pure Sine Wave) are much perfect for hybrid solar system. It has inbuilt sine wave inverter and PWM solar charger/SMPS charger in a single unit. It is specially designed to keep battery healthy for longer time period.

Convenience

Solar Hybrid PCU uses both Solar Power as well as A.C. Mains for charging the battery bank according to priority setting providing the users availability of uninterrupted power supply.

Elson





Salient Features

- User friendly Wide LCD display for better user interface.
- Smart Load sharing compatibility.
- Monitoring/data logging feature for better system information at user end (optional)
- >> Selectable charging current with high charging (HI) and Normal Charging (Low).
- >> PV availability, battery charging from solar power indication with solar power priority
- >> User friendly, control and selection switches with LCD indication on front panel
- Protections such as Mains MCB Trip, Overload, Short circuit, Battery low, over temperature indication with buzzer as well as display on LCD available
- Power Saving through No Load Shutdown Feature
- Maximum Solar Power Utilization during charging and backup mode
- PV pole reversal protection indication on LCD
- Deep discharge battery charging from A.C. Mains as well as Solar
- No humming Noise (Silent UPS)
- >> AC Mains available, battery charging/charged and it voltage indication provided on LCD display
- Two Modes of operation (EC/QC)
- >> Grid bypass option available.





SOLAR
HYBRID INDUSTRIAL INVERTER (PCU)
ESI SERIES (HKVA)







Technical Specifications

Model Name System rating	Units VA	ESI 3000 ₂₅₀₀	ESI 3500 3000	ESI 4000 3500	ESI 5500 5000	ESI 6000 5000	ESI 8000 7500	10000 10000	11000 10000
full Load Input Current ±2A	Amp	63/46	63/48	63	104	5000	75/63	77	48
Operating DC voltage	Volts	36/48	36/48		8	96	96/120	97	192
PV input	volto	30,10	00,10		•	**	0.0,1	**	
Maximum Solar PV Power	Vdc		75/90	75/90		180	180/	235	300
Maximum Solar array power	Wp	2500	3000	3500	5000	5000	7500	10000	10000
Max PV modules	Nos	10	12	14	16	20	30	30	40
Modules in series	Nos	3/2	3/2	2	2	4	4/5	5	8
Parallel strings	Nos	5	4	7	8	5	6	6	5
Max current rating of SCC	Adc	50.0	50.0	50.0	70.0	50.0	70/50	70.0	50.0
Efficiency of SCC	%					>90			
Switching element in Inverter Type of Control					MOSFET	PWM			IGBT
Nominal Output voltage in inverter mode	Vac			220V ± 7V		1 *****		230±7V	
Output supply phases	*400			2207 = 77		single		200211	
Nominal Frequency (in inverter mode)	Hz					50 ± 1			
Frequency (Min - Max during Grid by pass) UPS mode	Hz					47-53			
Frequency (Min - Max during Inverter mode	Hz					40-60			
Output voltage regulation	%			195-220		10 00		195-230	
Output THD (v) at linear load	%					<5%			
rest Factor						3:01			
Iverload capacity 125%	Sec					6 (6 Retry)			
Iverload capacity 120%	Sec					2 (6 Retry)			
Cooling Fan ON at temp	°C	60(or	>45%load and Sola	>15A)		()	Continuous Run		
Cooling Fan Off at temp	°C		<40%load and Sola				Continuous Run		
Peak efficiency of inverter	%	86	82	89	88	87	88	89	88
Battery low voltage alarm per battery	Vdc					10.8 ± 0.2	30		
Battery low voltage cut per battery	Vdc				10	.5 ± 0.2 (4 Retry)			
Batter low cut recovery per battery through Solar	Vdc					r mains and Front Swi	tch)		
Max Battery charging voltage by grid per battery	Vdc				12.7 _ 0.2 (0	14.4±0.2V	.011)		
Max Battery charging current by grid in Hi/Lo option	Adc					18±2			
Max Battery charging voltage by Solar per battery	Vdc					14.4±0.2V			
Battery High cut with Alarm per battery	Vdc					14.8±0.2			
Battery High cut Recovery per battery	Vdc					14.3±0.2			
Nax Battery charging current by Solar	Adc					20±2			
Max Charging current to battery by Solar+Grid	Adc					20±2			
Grid low cut voltage (IT load/Normal load)	Vac					180/100 ± 10			
Grid low cut voltage recovery (IT load/Normal load)	Vac					190/110 ± 10			
						265/280 ± 10			
Grid high cut voltage (IT load/Normal load)	Vac					265/280 ± 10 255/270 ± 10			
Grid high cut voltage (IT load/Normal load) Grid high cut voltage recovery (IT load/Normal load)						255/270 ± 10			
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wird high cut voltage (IT load/Normal load) wird high cut voltage recovery (IT load/Normal load) wird high cut voltage recovery (IT load/Normal load) wird charging Enable/Disable election of UPS Load/Normal Load election of Operating Mode butput Voltage at 100% load at Nominal Battery voltage put current at no load at Nominal Battery voltage loise @ 1 meter rotections CD Display parameters Operating Temperature range torage Temperature range flax RH ARH Include Includ	Vac Vac Adc dB C C C C M ms ms	transferred to : QC-Charging of 2.2 PV Current, Bty v	Solar + Battery and current = 20A ±1A \$ 2.2 oltage, Mains voltage	Grid reconnected < olar + Mains till ba 218±5 2 Batt. Low, Batt. + Low	st voltage, System v =11.5V per Battery. tery boost voltage v 2.2 ligh.Overload, Shor Mode on-off, Solar (fault, battery low, or Display Fan,mcb	255/270 ± 10 yes Through switch will cut off the mains we with maximum Solar S 2.2 <50 ton-off, Load percentag ver temp, PV reverse, N 0-50 0 +65 95 ywith Rocker Switch rotary,terminal,switch 20 <10 <10 <10 <50 Yes NO Yes NO	2 reverse.MCB Trip/Fuse (0 to 150%), Load statu	228±5 2 Trip s (on solar, battery or (c) 16x2) TERMINAL 60A	any case 2.2 grid), Charging stat
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Technical Specifications can be changed without prior notice.