



d.light i1600 Solar Hybrid PCU

Model Name	i1600
System Rating	1100/12 VA
Operating DC Voltage	12Vdc
Maximum Solar Array Power	500 Wp
Type of Solar Charger	PWM
Max Current Rating of SCC	50.0 Adc
Efficiency of SCC	>90 %
Nominal Output Voltage in Inverter Mode	220V \pm 7V Vac
Max Battery Charging Current by Solar	20 \pm 2A Adc
Max Charging Current to Battery by Solar+Grid	20 \pm 2A Adc
Grid Low Cut Voltage (UPS load/Normal load)	180/100 \pm 10 Vac
Grid High Cut Voltage (UPS load/Normal load)	265/280 \pm 10 Vac
Selection of UPS Load/Normal Load	Through switch
Selection of Operating Mode	<p>HC-Charging current = 20A \pm2A Solar + Mains till battery boost voltage with maximum Solar Sharing. System will not disconnect grid in any case</p> <p>EC-Charging current= 20A \pm2A Solar + Mains till boost voltage, System will cut off the mains when battery voltage reaches boost voltage level and output load is transferred to Solar + Battery and Grid reconnected \leq 11.8/11.2V per Battery.</p>
Noise @ 1 meter	<50 dB
Protections	Overload, Battery Deep discharge ,Battery Overcharge, O/P Short circuit (1 retry), Battery Hi, PV Reverse, Over Temp, Fuse Trip, Battery Reverse
LCD Display Parameters	PV Current, Battery voltage, Mains voltage, UPS ON/OFF, UPS Mode, Symbol of sun (Smily) if solar available, (non smily symbol in absence of solar), Load percentage (0 to 125%), over load, short ckt, fault, battery low, over temp, PV reverse, Fuse trip.
Indications LEDs	4 LEDs for Switch Status
Operating Temperature Range	0-50 $^{\circ}$ C
Storage Temperature Range	0-65 $^{\circ}$ C
Front Panel Details	Display with Tact Switch
Rear Panel Details	O/P Socket,Circuit Breaker, Mains & Batt. Cable & Fan
Enclosure Protection	IP 20
Mains Connection	3 core copper cable size 0.75sqmm & 1.25mtr length
Output	Output Socket 6A
Fuse in Battery Path	Internal Fuse
Fuse in Solar Path	Yes
Input Protection	Through Circuit Breaker



Gross Weight	11.5 Kg (\pm 0.2 Kg)
Product Dimension	370x350x185 mm (\pm 10mm) (LxBxH) in mm