

empowered by  
**INNOVATION**

## 9 SERIES SOLAR PCU



### SOLAR PCU SALIENT FEATURE

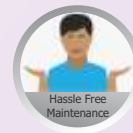
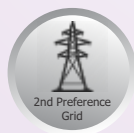
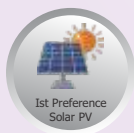
- Next-GEN Solar Hybrid PCU incorporates DSP based technology
- 40/50 Amp built-in PWM solar charge controller
- Increased battery life as solar panel produces pure DC power
- Solar panel 100 W to 800 W (12V) & 200 W - 1600 W (24V)
- Solar PV reverse connection protection
- Multiple, Multi level inbuilt over current & over voltage protections
- Multicolor user friendly interactive LCD display system
- Advance pure sine wave technology





## 9 ENERGY OFF - GRID SOLAR POWER CONDITINING UNIT (OG - PCU)

	Model Name	NE1215	NE2515	NE3515	NE5515	NE5515	NE6515
	Capacity Rating	1000VA/12V	2000VA/24V	3000VA/48V	5000VA/48V	5000VA/96V	6000VA/96V
<b>1</b>	<b>INVERTER MODE</b>						
	Nominal Output Voltage	220V AC $\pm$ 5%					
	Output Frequency	50Hz $\pm$ 0.2Hz					
	Output Waveform	Pure Sine Wave					
	No Load Output Voltage	220V AC $\pm$ 5V AC					
	No Load Current	<2Amp					
	Running Load	60A $\pm$ 2A	60A $\pm$ 2A	50A $\pm$ 2A	80A $\pm$ 2A	42A $\pm$ 2A	92A $\pm$ 2A
	Overload	>110%					
	Battery Low Alarm	10.5V $\pm$ 0.2V	21.0V $\pm$ 0.2V	42.0V $\pm$ 0.8V	42.0V $\pm$ 0.8V	84.0V $\pm$ 1.6V	42.0V $\pm$ 0.8V
	Battery Low Shutdown	10.2V $\pm$ 0.2V	20.4V $\pm$ 0.2V	40.8V $\pm$ 0.8V	40.8 $\pm$ 0.8V	81.6V $\pm$ 1.6V	40.V $\pm$ 0.8V
	Changeover Time Normal Mode	<15ms					
	Changeover Time UPS Mode	<15ms					
	Short Circuit	>300%					
<b>2</b>	<b>GRID MODE</b>						
	Mains Input Low Cut Normal	110V $\pm$ 10V					
	Mains Input Low Cut Recovery Normal	130V $\pm$ 10V					
	Mains Input High Cut Normal	280V $\pm$ 10V					
	Mains Input High Cut Recovery Normal	260V $\pm$ 10V					
	Mains Input Low Cut UPS	170V $\pm$ 10V					
	Mains Input Low Cut Recovery UPS	190V $\pm$ 10V					
	Mains Input High Cut UPS	260V $\pm$ 10V					
	Mains Input High Cut Recovery UPS	250V $\pm$ 10V					
	Input Frequency Range	50HZ $\pm$ 5Hz					
	Voltage Output in Mains Mode	Same as Grid Voltage					
<b>3</b>	<b>BATTERY</b>						
	DC Input Voltage	12V DC	24V DC	48V DC	48V DC	96V DC	48V DC
	No of Batteries	1	2	4	4	8	4
	Boost Charging Voltage	14.5V $\pm$ 0.2V	29.0V $\pm$ 0.4V	58V $\pm$ 1.5V	58V $\pm$ 1.5V	116V $\pm$ 3.2V	58V $\pm$ 1.5V
	Float Charging Voltage	14.0V $\pm$ 0.2V	28.0V $\pm$ 0.4V	56V $\pm$ 1.5V	56V $\pm$ 1.5V	112V $\pm$ 3.2V	56V $\pm$ 1.5V
	Charging Current Grid	15A $\pm$ 2A					
<b>4</b>	<b>SOLAR PV MODE</b>						
	Maximum PV Voltage(Voc)	25V	45V	90V	90V	180V	90V
	Input PV Voltage Range(Vmp)	21V	36V	72V	72V	144V	72V
	Maximum PV Charging Current	40Amp	50Amp	50Amp	50Amp	50Amp	50Amp
	Re-commended Panel Capacity	600Wp	1200Wp	2400Wp	3500Wp	5000Wp	6000Wp
	PV Overvoltage	>25V	>45V	>72V	>72V	>144V	>72V
	Reverse PV Protection	Available					
<b>5</b>	<b>PROTECTIONS &amp; ALARM</b>						
	Overload in Inverter Mode	Available					
	Short Circuit in Inverter Mode	Available					
	Short Circuit in Mains Mode	Available					
	Battery Under Voltage	Available					
	PV Overvoltage	Available					



## 9ENERGY SOLAR SOLUTION

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