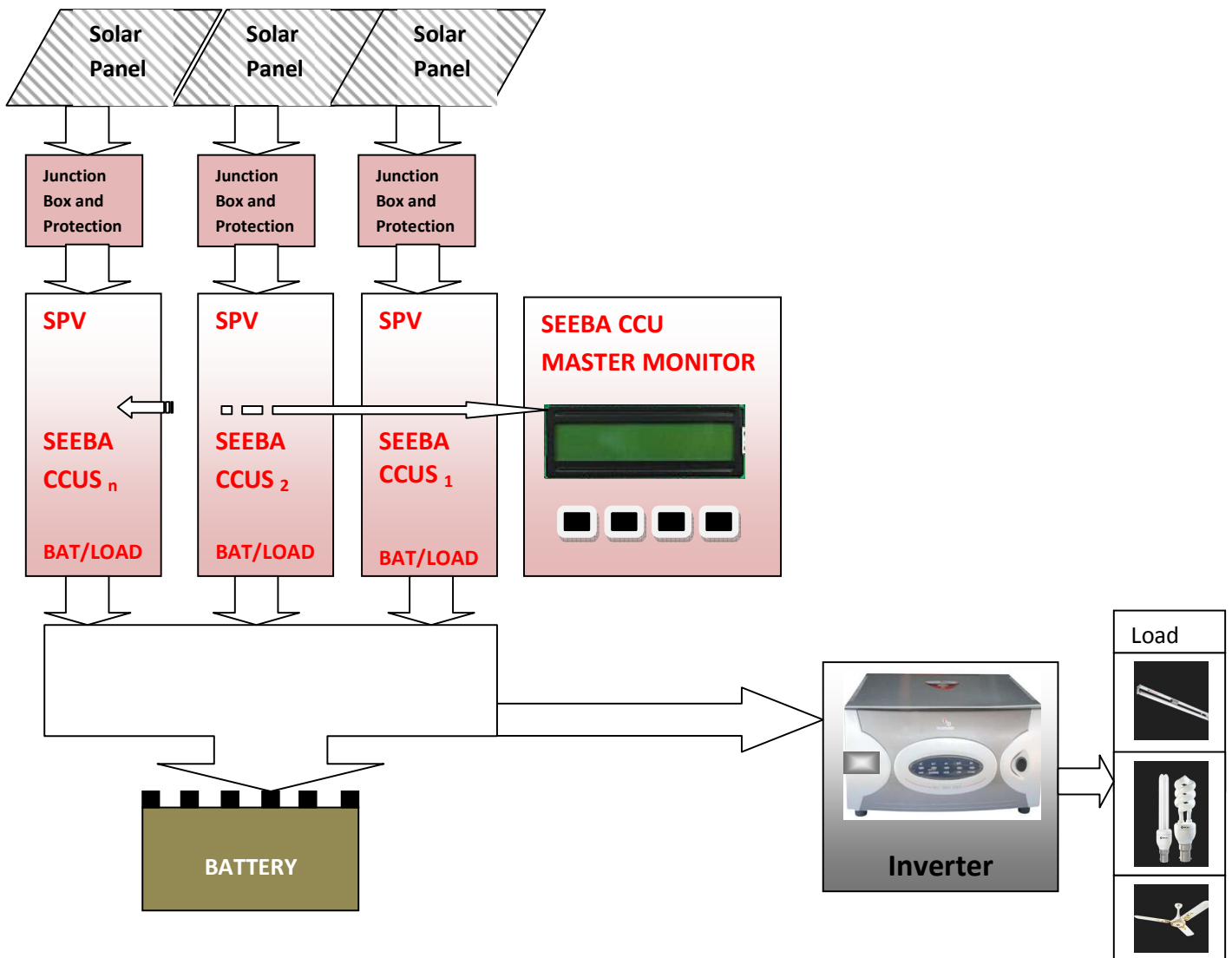


## Specifications CCU Master-Slave Expandable Charge Controller System

For 24V, 36V, 48V Battery Systems.



Typical Connection Diagram Showing “n” CCU s Monitored and Controlled by Master Monitor.

Maximum “n” number of CCUs is 30

# SEEBASYSTEMS. PUNE

Measurement and control from signals to power

## FEATURES

- Highly Efficient Analog Controlled MPPT/ PWM Charge Controller
- User Friendly Programming and setting through Master Monitor Set-points by Keypad and Display
- Float and boost Mode for Battery Charging with Voltage and Current Limit settable
- Real Time reading and data-Logging Facility. Maximum 500 Data Points Logging.
- RS 485 Interface on MODBUS ASCII/RTU (Optionally any other Protocol Of Your Choice)
- Current Sharing and Monitoring by Master Monitor
- Modular Design Built for expandability up to 33kWp
- Buck and Boost MPPT/PWM Control
- Adjustable Low Voltage Disconnect (LVD), Load Reconnect, Overload
- Temperature Compensation Enable –disable 4mV per Deg C/ 2 V Cell
- Operating Temperature Range 0 to 50 Deg C
- Stand By Power Consumption <100mA
- Natural Cooled
- Highly Reliable and rugged construction for long service life
- Module for Indoor Installation IP20 Protection
- Efficiency better than 90%
- Measurements and display Input PV Voltage/ Current , Output Battery/Load Voltage-Current, O/p kW and Output kWh totalized
- Indications : Current Limit Operation, Voltage @ Set Value, Load Disconnect

## SPECIFICATIONS\*

SPECIFICATION/ MODEL:	CCUD20SAD24	CCUD20SAD36	CCUD20SAD248
Nominal Battery Voltage	24VDC	36VDC	48VDC
Maximum Solar Array	600W	900W	1200W
Recommended Array	550W	825W	1100W
PV Open Circuit Voltage	<140V		
LVD setting Range	18-21.4V	27-32.1V	36-42.8V
Load Reconnect setting Range	25.3-28V	37.5-42V	50.6-56V
Temperature Compensation	Disable-4mV/DegC /2V Cell		
Protections	1) Reverse Polarity: PV,Battery 2) Input Side: MOV 3) Fuse Protection In Input and Output, Both Lines 4) Current Limiting		
Dimensions	270mm x 130mm x 150mm (H xWxD)		
Control	PWM /MPPT		
Measurements and display	<ul style="list-style-type: none"><li>• Input PV Voltage</li><li>• Input PV Current</li><li>• Output Battery/Load Voltage</li><li>• Output Battery/Load Current</li><li>• O/p Instantaneous kW</li><li>• Output kWh Totalized</li></ul>		

\*Subject to Change without Notice due to continuous development process