

PV & Battery Calculation

Fixed Parameters

BSP-300 System Consumption	8 Watts
POE 1 Device Consumption	25 Watts
POE 2 Device Consumption	7 Watts
DC out Consumption	0 Watts
Total System Consumption	40 Watts
System operating per days	24 Hours
Battery operate Voltage	24 Voltage
Low Voltage Disconnect (LVD)	22 Voltage
PV Charge Voltage	45 Voltage
Sunshine Duration	8 Hr/Day
Battery Discharge Depth (Efficiency)	70%
PV Efficiency	80%
Longest Cloudy Days	1 Day

At least PV watts required	300.0 Watts
Battery Capacity required	124.7 Ah

PV Charge Current (PCC)	6.7 A
BSP-300 Current Buffer (PCC<1!	8.3 A
Battery Current	1.7 A
Charge Hours	24.9 Hours