

Lakecomm Solar System Sizing

REPEATER VXR9000 - Commercial

Description	Amps	Hrs	AH Per Day
TX 10% Duty Cycle - 50 Watts	11.4	2.4	27.4
RX Standby	0.53	21.6	11.4
SUB TOTAL			38.8
Plus 20% Sun Loss			7.8
TOTAL DAILY AH REQ			47
TOTAL AMPS REQUIRED/Hr			10.3

BATTERY SIZING	
DAILY AMP HOURS REQUIRED	47
No OF (No Sun) DAYS BACKUP	5
D.O.D. (Depth of Discharge)	0.7
1=Zero, 0.7=70%, 0.5=50%, 0.3=30%	-
Battery Capacity (AH) Required	333

Panels Required	QTY
BP3125U	1.4
BP380U	2.2
BP365U	2.7
SX50U	3.2

System Costing

Description	Qty
BP380U - 80W Solar Panel	2
PR1210 Regulator	1
HGL 200-12B Battery (440AH Capacity)	2
Connection Cables Assy - Battery & Solar Panels	1
Fuse Kits & Wiring diagrams	
TOTAL SYSTEM COST	\$2,510.00