

System requirement instruction		5KW off-grid photovoltaic system		
Design Basis:		the system DC voltage is set to 48VDC		
System configuration and offer:				
Item	Part	Specification	Quantity	Remarks
1	Solar panel	Poly 280W	18pcs	connection method: 3 strings x 6 parallels
2	PV combiner box	BR6-2	1pc	6 inputs, 2 outputs
3	Bracket	C-shaped steel	1set	hot-dip zinc
4	Inverter	BR-5K-48V	1set	1 AC Input & AC Output: 220VAC. 2 Support grid/Diesel Input. 3 Pure sine wave, power frequency output. 4. LCD display, Intelligent Fan
5	Controller	BR48V-60A (MPPT)	2sets	With Temperature Compensation Protection of Overcharge, Over-discharge, Overload LCD Screen
6	GEL Battery	12V-150AH	8pcs	4 strings x 2 parallels Total release power: 10KWH
7	Battery Rack		1set	
8	Connector	MC4	6pairs	
9	PV cables (solar panel to PV combiner box)	4mm ²	150m	Free for this length. If the client wants longer cables, the price needs to be confirmed again.
10	BVR Cables(PV combiner box to Controller)	6mm ²	40m	
11	BVR Cables(Controller to Battery)	16mm ²	40m	
12	BVR Cable (Battery parallel)		2sets	
13	Connecting cables		6sets	
14	Breaker	2P 63A	1set	
Instructions	<p>According to the annual average effective sunshine 5H, the annual average daily power generation of the components is 18.7KWH; the effective discharge capacity of the battery is 10KWH; the recommended daily power consumption is 10KWH.</p> <p>Warning:The maximum power load should not exceed 6KVA (including inductive load impact: such as refrigerators, air conditioners, washing machines, etc. with motor load).</p>			