ARYA 8000

General Specs	Complete solar power system
Solar array	10800 W 10.8 KW
Average Energy produced in Caribbean	60 KWH Per day
Energy Storage Capacity	42.2 KWH
Inverter Capacity	8000 W 8 KW
Surge	16 kw

HYBRID INVERTER

PV St ring Input Data	1 unit 8000 W
Max.DC Input Power (W)	10400W
PV in put Voltage (V)	370V (100V-500V)
MPPT Range (V)	125V-425V
Start-up Voltage (V)	125V
PV Input Current (A)	18A + 18A
No.of MPPTTrackers	2
N . f Strings Per MPPT Tracker	2+2
AC. Output Data	
Rated AC utput and UPS Power (W)	8000W
Max AC Output Power (W)	8800W
Peak P wer(offgrid)	16000 W for 10S
AC Output Rated Current(A)	33.4A
Max.AC Current(A)	38.3A
Max Continuous AC Passthrough(A)	S0A
Output Freq uen cy and Vo lt age	50/60Hz; 120/240Vac (Split Phase)
Grid Type	Split phase 2/3 phase
C urrent Harmonic Distortion	THD>3% (Linear load <1.5%)
Efficiency	
Max Efficiency	97.60%
Euro Efficiency	97.00%
MPPT efficiency	99.90%
Protection	
PV Arc Fault Detection	Integrated (Except European Type)
PV Input Lig ht ni ng Protection	Integrated
Anti-islanding Protection	Integrated
PV String Input Reverse Polarity Protection	Integrated
ln ulation Resistor Detection	Integrated
Residual Current Monitoring Unit	Integ rated
Output Over Current Protection	Integrated
Output Shorted Protection	lnleJlraled
Output voltage protection	Integrated
Centifications and Standards	
Grid Regulation	ULJ741,IEEE1547, RULE2l ,
Safety Regulation	IEC62109-1. IEC62109-2
EMC	EN61000-6-I. EN6 1 000 -6-3, FCC 15 class B

BATTERY

General Specs	2 units 21 KWH each
Nominal Voltage (V)	48 V
Battery Chemistry	Lithium Ion
flattery Voltage Range (V)	40 v - 60 v
Max.Charging Current (A)	l90A
Max.Discharging Current (A)	190A
Charging Curve	3 Stages/Equalization
Exte rnal Temperature Senso r	Optional
Charging Strategy for Li-Io n Battery	Self adaptation to BMS
Capacity	
Nominal Capacity (Wh)	21 KWh
Usable Capacity (Wh)	19 KWh
Physical size	
Dimension (mm)	800*600*620 mm
Weight (Kg)	250 Kg
Electircal parameters	
Discharge Voltage (V)	45 ~ 53.5
Charge Voltage (V)	52.5 ~ 53.5
Recommend Charge/Discharge Current (A)	37
Max. Charge/Discharge Current (A)	74
Peak Charge/Discharge Current (A)	100A@15sec
General Specs	
Communication	RS485, CAN
Working Temperature C	0~50 C Charge - 10 - 50 C Discharge
Humidity	5% ~ 85%
Certification	IEC62619 / CE / UN38.3 UL 1973 UL1642
Design life	10+ Years
Cycle Life	>6,000

SOLAR PANEL

Electrical Parameters	36 Pcs 300 W each
Rated Maximum Power at STC (W)	300 W
Open Circuit Voltage VOC V	39.82v
Maximump power voltage VMP/V	32.51v
Short Circuit ISC/A	9.84a
Maximum power current IMP/A	9.23a
Module Efficency %	18.44
Working Prameters	
Maximum system voltage	DC 1000V\
Operating Temprature	from negative 40 to positive 80 C
Maximum Fuse size	20 A
Application Class	A
Mechanical Parameters	
Weight	18 Kg
Dimension	1640*992*35 mm
No of cells	60
Connector	MC4 Compatible