3.Features

The enclosure with pre-configured diesel generator, energy storage system, protection and control equipment, power electronics. The PV array system can easily plug into the system to begin exporting power.

- Easy external DC connection point for solar arrays
- Hybrid controller reduces operating costs by up to 40% when compared with traditional diesel generators
- Optimize diesel engine operation according to the weather of location.
- No maintenance or memory problems with safety LFP batteries.
- Remote monitor the access doors and manage the different level of customer.
- 900L diesel storage in base tank, long time backup energy
- Multi-power source input, flexible energy dispatch.
- WxLxH = 2030×880×2100mm independent room provide to the customer for their device.

SayHy Station Appearance ▶



SayHy Station Appearance with PV ▼



SayHy®

Hybrid Power Solution

www.doart-energy.com

Product Manual

wechat code

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To learn more about Doart-rockcore offerings, visit www.doart-energy.com

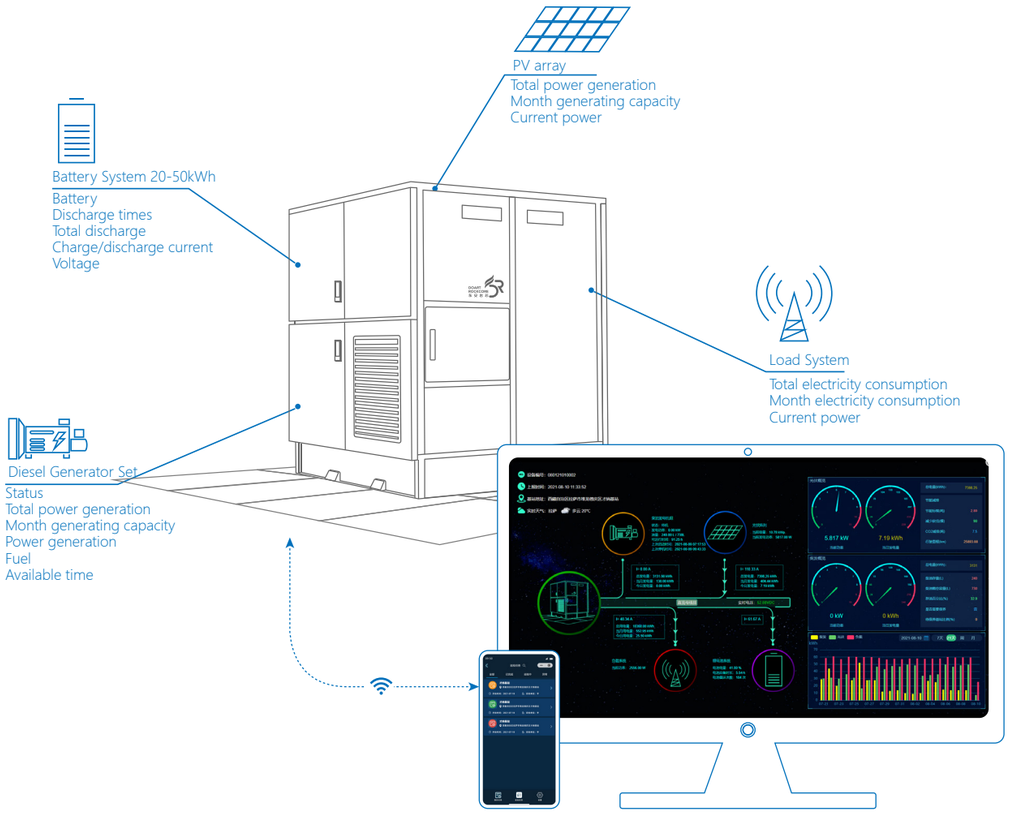
1.Introduce

The SayHy® hybrid power solution is designed to provide reliable electricity in Telecom applications, such as new 5G base station or remote telecom station. Pre-wired and configured, the hybrid solution can be installed and commissioned within hours upon arriving at site.

PV arrays, Diesel generator, lithium batteries, hybrid power converter are integrated in one enclosure. Its hybrid controller will ensure that the lower-cost power source is prioritized, automatically controlling the available sources to ensure that the base station needs.

Its remote 7X24 hours monitoring and diagnostics capability eliminates the need for local supervision and control.





2.Datasheet

* Products comply with UL standards

Part	Item	Data	NOTE
PV module	Temp	-40℉ ~ +185℉	
	Pmax	550W	
	Isc	13.85A	
	Voc	49.42V	
	Impp	13.27A	
	Vmpp	40.70V	
	η%	20.4%	
	Tolerance	0~+5W	
	Dimension	2279mm×1134mm×35mm	
	Weight	29kg	
Diesel generator	Generator Rating (kVA)	9kW	
	Rated voltage	230V/1ph	
	Rated current	39.1A	
	Maximum current	43.5A	
	Rated frequency	50Hz	
	PF	1	
Lithium batteries	Rated Voltage (V)	51.2	
	Rated Capacity (Ah)	100	
	Rated Energy (W)	5120	
	Rated discharge current (A)	100	
	Protective voltage (V)	57.6	
	End (V)	43.2	
	Charge temperature (℃)	32℉~131℉ 0℃-55℃	
	Discharge temperature(℃)	-4℉ ~ 131℉ -20℃-55℃	113℉ derating
	Dimension	520（L）*481（W）*132（H）±2mm	
	Weight（kg）	38	
Power Electronics	Maximum Solar Array Input	12kWp/18kWp	
	Array Input Voltage Range	120-340 VDC	
	Array Input Current	17 Amp	
	Max Voc	425 VDC	
	Peak Efficiency	>=96%	
Energy Storage	Battery Voltage	–48 VDC	
	Design Cycle Life	3000 cycles at 80% Depth of Discharge @ 77℉(25℃)	
	Nominal Ah Capacity	1000 Ah	
Additional Optional Features	Router/Modem	4G-3G-2G GSM/GPRS cellular router	
Power Output	Nominal	5 kW	
	Voltage	-48VDC	

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