

Rd300w SERIES

Off-grid Solar Power System



R&D Resourcing The More Value



ABOUT RUNDA ENERGY

Runda Energy is subsidiary of Runda (Hongkong) Share limited, is one of the reputable fully resources integration PV product supplier. With over 150MW of solar product supplied, we are a reliable solar energy company built upon proven product reliability and sustainable performance. We are committed to offer reliable and sustainable PV product and provide affordable green energy for all. runda energy based the higher performance and comfortable service resourcing the more value to the customer in the world.

GENERAL INFORMATION

Off-grid Solar Power System converts solar energy to AC electric energy through solar module and inverter device, which can meet basic electricity demand for home lighting and appliances.

Meantime, the DC electric energy from the solar system can supply to the DC facilities, such as mobile phone, lap-top computer, etc.

Off-grid Solar Power System can be widely used in many different places, such as solar family power supply, road monitoring system, tunnel power supply system, communication base station, forest fire prevention, environmental monitoring, grassland ranch, fishermen farming, border post and any places where have no electricity or are short of electricity.

ADVANTAGE

- Green and sustainable
- Safe, quiet and stable
- No pollution
- Easy installation, convenient operation

RECOMMENDED LOAD

- Energy-saving lamp (9W), 4sets, 4hours/day
- TV & IRD (120W), 1set, 4hours/day
- DVD player (40W), 1set, 4hours/day

CERTIFICATION

ISO 9001:2008, ISO 14001:2004, BS OHSAS 18001:2007,
PV Cycle

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GENERAL INFORMATION

System model	RD300
Module type	RDE 140 series
Con-inverter	RDCI 500-24
Battery type	12V/150Ah
Generation	~0.75kWh

Battery stand-by days: 3 days. Peak sun hours: 4.5 hours/day.

MODULE PARAMETERS RDE 140 SERIES (STC)

Module type			RD140P-17b	RD135P-17b	RD130P-17b
Power output	P_{max}	W	140	135	130
Power output tolerances	ΔP_{max}	%	+/- 5		
Voltage at P_{max}	V_{mpp}	V	18.0	17.6	17.6
Current at P_{max}	I_{mpp}	A	7.77	7.67	7.38
Open-circuit voltage	V_{oc}	V	22.5	22.3	22.1
Short-circuit current	I_{sc}	A	8.40	8.20	8.05
Dimensions		mm	1470×680		

STC: 1000W/m² irradiance, 25°C cell temperature, AM1.5, according to EN 60904-3.

CON-INVERTER PARAMETERS

Rated capacity	500VA	
DC voltage	24V	
Battery	VRLA battery	
C o n t r o l l e r	Rated current	15A
	DC over-voltage protection point	29.6 ~30V (adjustable)
	Static current	≤1%
	Drop voltage	≤5%
	Protection function	reverse connection of battery / module, short circuit, over load, etc
I n v e r t e r	Output voltage	220V±3%
	Output frequency	50Hz±0.5%
	Output waveform	sine wave
	Output voltage waveform distortion	<5% (linear load)
	DC under-voltage protection point	21.6V (adjustable)
Over load capacity	125% >1min; 150% >10s	
Operating condition	height≤5000m; -10°C~+40°C; 95% relative humidity (no coagulation)	
Storage and transportation condition	-20°C~+70°C	
Noise	<50dB (within 1m)	
Protection degree	IP20	
Dimensions (L×W×H)	450mm×520mm×500mm	
Net weight	21kg (exclusive battery)	

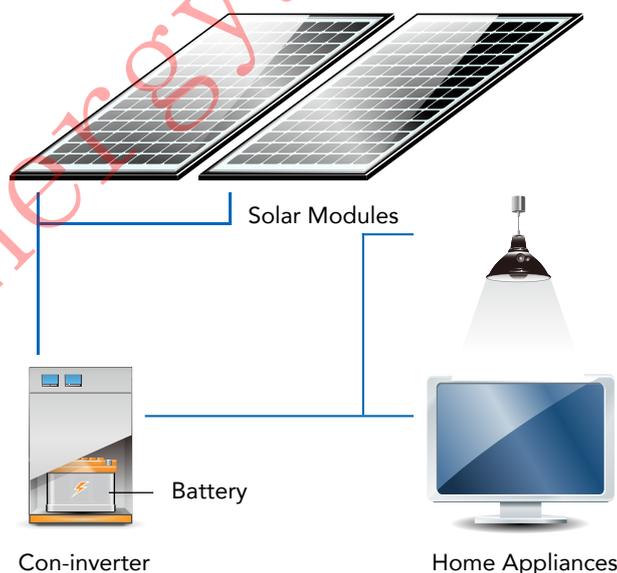
PACKAGE

Name	Dimensions (mm)	Weight (kg)	Contents	Quantity
Module package	1540×780×200	32	Module	2
			Specification	1
Con-inverter package	550×600×620	25	Con-inverter	1
			Manual	1
Battery package	520×430×250	100	Battery	2
			Manual	1
Structure package	400×400×1550	50	Bracket	1
			Cable	1
			Manual	1

Packaging specification refers to the actual product.

Note: The package can be designed according to customer's special requirement.

DIAGRAM:



Warning: Please ensure a good and stable connection. Please use rated load. Please check attached specification for more detailed information.

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