

# Rack Mounted Off-grid Hybrid Inverter

VRF series



## FEATURES

- ▶ 3U rack structure design for easy installation
- ▶ Pure sine wave output, can meet various types of requirements.
- ▶ Built-in MPPT solar controller
- ▶ The priority level of photovoltaic, utility power and battery is selectable.
- ▶ It has a wide range of selectable mains input voltage.
- ▶ In built protection for over-discharge, overload, over-temperature, short-circuit protection etc.
- ▶ Cold Start Function supported.
- ▶ Supports RS485/CAN/SNMP/Wifi/Bluetooth monitoring function. Compatible with different brands of ESS.

▶ For More about SVC range of products, visit: [www.svcenergy.com](http://www.svcenergy.com)

## Technical Parameter

MODEL	VRF 3	VRF 5
Rated Capacity	3000VA/3000W	5000VA/5000W
INPUT		
Input Format	L+N+PE	
Rated input voltage	208/220/230/240VAC	
Voltage Range	Appliance mode: 90~280V; UPS mode: 170~264V	
Frequency Range	50Hz/60Hz(Auto sensing)	
OUTPUT		
Output Format	L+N+PE	
Rated output voltage	208/220/230/240VAC±5%	
Output frequency	50/60Hz±0.1%	
Waveform	Pure sine wave	
Transfer Time	10ms	
Peak Power	6000VA	10000VA
Overload Capacity	Battery Mode: 1min@102%~110% Load      10s@110%~130%Load 3s@130%~150% Load      200ms@>150% Load	
Peak Efficiency (Battery Mode)	>93%	>94%
BATTERY		
Rated voltage	24 VDC	48 VDC
Constant voltage charging voltage (can be set)	28.2 VDC	56.4 VDC
Float charging voltage (can be set)	27 VDC	54 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger type	MPPT	
PV maximum input power	4000W	5500W
MPPT tracking range	120~430 VDC	
Maximum PV input voltage	500 VDC	
Maximum PV Charge Current	80 A	
Maximum mains charging current	60 A	80 A
Maximum charging current	120A	80 A
Communication Interface		
RS232	5PIN/Pitch2.0mm , baud rate 2400	
Expansion communication interface	2×5PIN/Pitch2.54mm , Lithium battery BMS communication card, WIFI card, dry contact card,etc.	
Parallel interface	No parallel	With parallel:Up to 9pcs
Environmental Parameters		
Operating ambient temperature	0~40℃	
Operating environment humidity	20%~95% (Non-condensing)	
Storage temperature	-15~60℃	
Altitude	Altitude should not exceed 1000m, derating above 1000m, maximum 4000m, refer to IEC62040	
Noise	≤50db	
Physical parameters		
D×W×H(mm)	405×483×133.5	
Weight (net weight)(kg)	7	7.8