

SR - Series

Rack Mount Inverter



Highly reliable, modular design DC-AC inverter system, designed with advanced power electronics and microprocessor technology

Telecom / Datacom

Satellite / Power Station



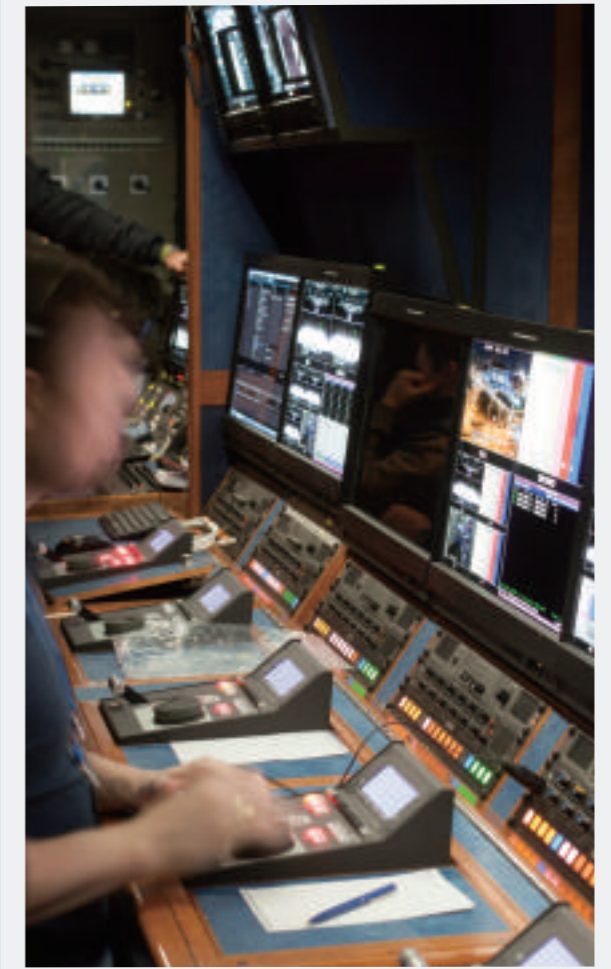
- 1 Telecom, Data Center
- 2 Uninterruptible Power System (UPS)
- 3 Rack mount Power Backup System



Energy Station System (ESS)



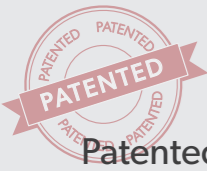
Railway



Broadcasting Radio Station

Modular Inverters

SR-1600 PLUS



Patented technology US Patent no.: US10-530-267

The SR-1600 PLUS is a highly reliable, modular design DC-AC inverter system, designed with advanced power electronic and microprocessor technology

1 Seamless switch between AC and DC

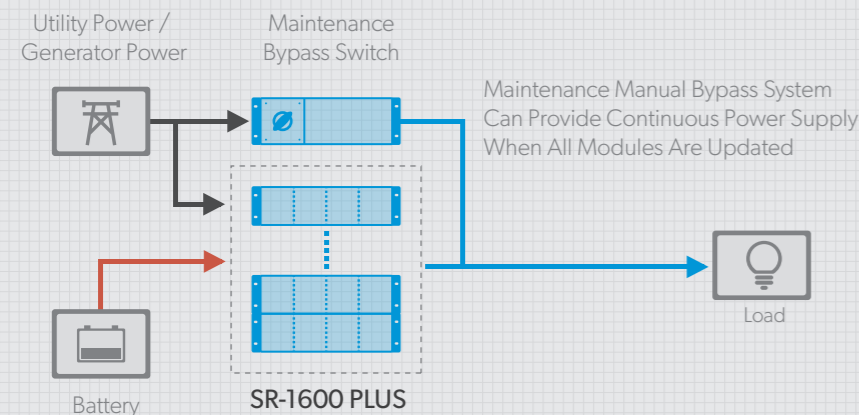
0 Second transfer-switch between AC and DC, avoid damage to the instrument caused by transient voltage



2 Output Efficiency Up to 95%

Reduce energy loss and heat dissipation

3 Built-in Static Transfer Switch



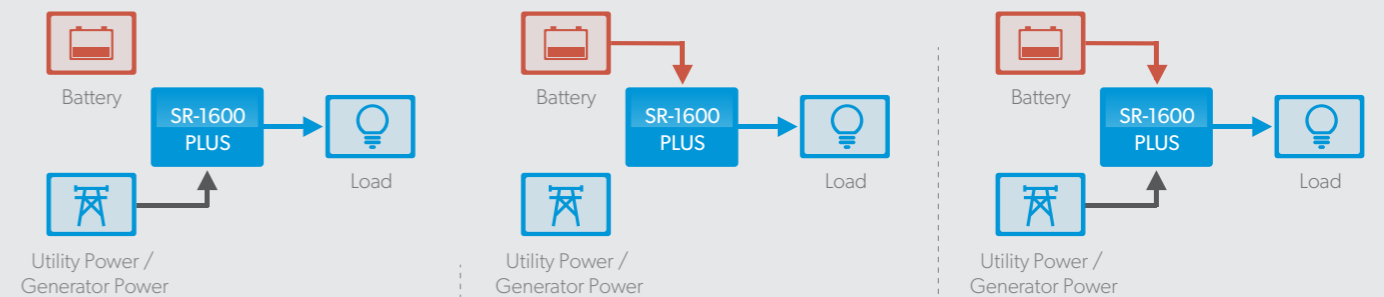
Support output parallel connection and redundancy (N+1)

4 modules in one 2U shelf : 6.4KW

Support up to 8 shelves : 51.2KW

Easy Maintenance by Hot Plug and Swappable Module

3-in-1 Operating Modes



AC Mode DC Mode Sharing Mode

Scan QR Code to view the User's Manual

SR-1600 PLUS System Packs



1 2U 1 rack + 4 module



2 2U + CR-21 PLUS
1 rack + 3 module + CR-21 PLUS + SN-1 PLUS

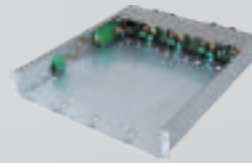


3 4U + CR-21 PLUS
2 rack + 7 module + CR-21 PLUS + SN-1 PLUS



SN-1 PLUS

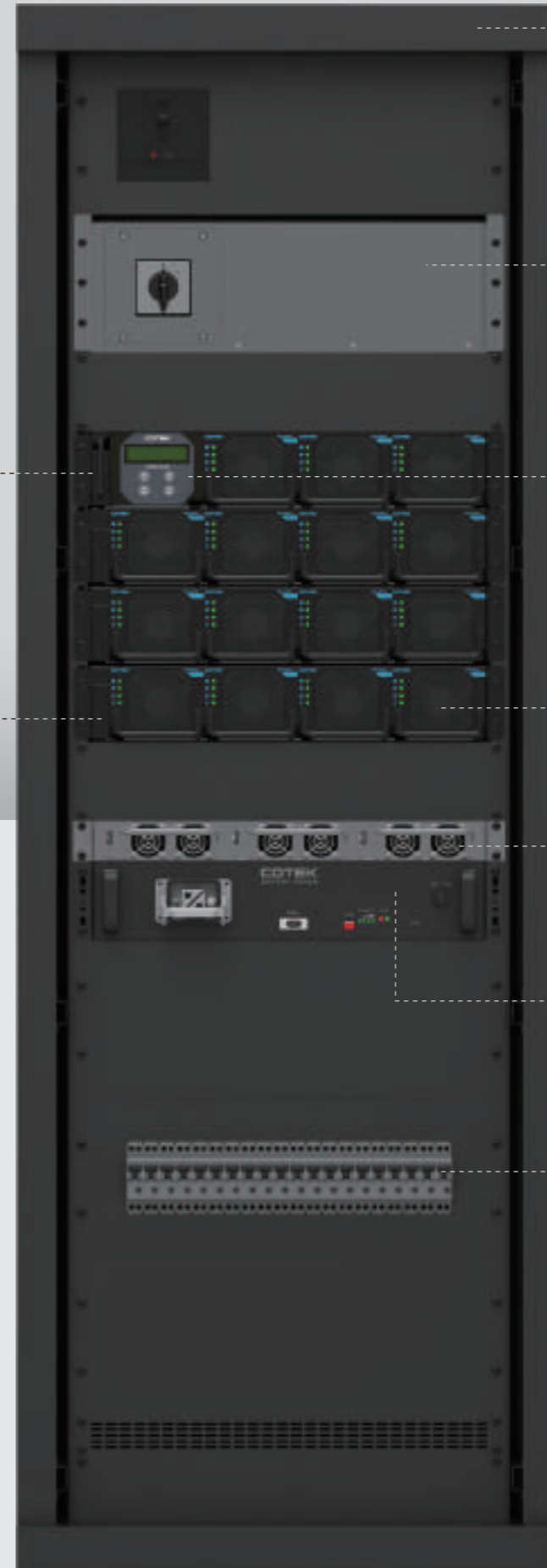
Display and Setting via SNMP Ethernet
(NMS / Web Browser)



Rack

2U 19" Rack by models of SR-2U1 Plus & SR-2U2 Plus

SR-1600 PLUS System



Cabinet with Power Distribution
(Built at the request)

MBS
Maintenance Manual Bypass Switch (65A, 130A, 260A)



CR-21 PLUS
Display & Setting via LCM Controller

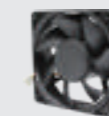


Module
1600VA inverter module support
1 100-120Vac & 200-240Vac **2** 24Vdc / 48Vdc version

Rectifier (Built at the request)

Modular Battery (Built at the request)

19" Power Distribution Cabinet



FAN Module
Front-end changeable fan module



Dummy Module
For the empty module space fulfillment

Rack height	Present		Future (Expandability)		Maximum	
	No. Module	VA	No. Module	VA	No. Module	VA
1 2U	1	1600	3	4800	4	6400
	2	3200	2	3200		
	3	4800	1	1600		
	4	6400	0	0		
2 2U + CR-21 PLUS	1	1600	2	3200	3	4800
	2	3200	1	1600		
	3	4800	0	0		
3 4U+ CR-21 PLUS	1	1600	6	9600	7	11200
	2	3200	5	8000		
	3	4800	4	6400		
	4	6400	3	4800		
	5	8000	2	3200		
	6	9600	1	1600		
	7	11200	0	0		

	SR-1600-124 PLUS	SR-1600-148 PLUS	SR-1600-224 PLUS	SR-1600-248 PLUS-248
AC Output				
Rating Power	1200W / 1600VA	1600W / 1600VA	1200W / 1600VA	1600W / 1600VA
Short Time Overload Capacity	150% rated power (15 seconds)			
Nominal Voltage (AC)	120VAC		230VAC	
Output Voltage Range (AC)	100~120VAC ± 3%		200~240VAC ± 2%	
Efficiency AC Mode	94%		95%	
Efficiency DC Mode	89%	90%	90%	91%
Frequency Range	50 / 60 Hz			
THD (Above 80% Resistive Load)	< 3%			
Turn ON Delay	<10 sec.			
Crest Factor at Nominal Power	DC mode: 3 times nominal current	AC mode: 6 times nominal current	DC mode: 3 times nominal current	AC mode: 10 times nominal current
AC Input				
Nominal Voltage (AC)	120VAC		230VAC	
Voltage Range (AC)	90~130VAC ± 3% (adjustable from 75V to 132.5V)		180~260VAC ± 2% (adjustable from 150V to 265V)	
Power Factor@Rating Power	> 0.99			
Frequency Range	50 / 60 Hz			
Synchronization Range	47~53 Hz, 57~63 Hz			
DC Input				
Nominal Voltage (DC)	24VDC	48VDC	24VDC	48VDC
Voltage Range (DC)	18~34VDC ± 3%	36~68VDC ± 3%	18~34VDC ± 3%	36~68VDC ± 3%
Nominal Current (at 24Vdc/48Vdc)	56A	37A	56A	37A
Max. Input Current (15 Sec.)	90A	60A	90A	60A
Control & Signal				
Indicator	LED, Buzzer Alarm, Event Log			
Advanced Control	RS-485 (Modbus) embedded, CR-21 Plus (Optional), SN-1 Plus SNMP (Optional)			
Protection				
Input / Output Protection	Over Voltage, Under Voltage, Overload, Over Temperature, Reverse Polarity, Short Circuit			
Transfer Performance				
Inverter / Utility AC	0 sec.			
Environment				
Operating Temp.	Full Load -25°C ~ 40°C ; Power De-rating from 40°C to 60°C			
Storage Temp.	-40°C ~ 70°C , 95% RH non-condensing			
Safety & EMC				
Safety Standards	Meet UL62368-1		EN62368-1	
EMC Standards	FCC class B		EN55032 Class B; EN55024; EN300386 EN 61000-3-2, -3-3, -6-1, -6-3; IEC 61000-4-2, 3, 4, 5, 6, 8, 11	
Other				
Dimension (WxHxD) - Module	105x83x410 mm / 4.13x3.27x16.14 inch			
Dimension (WxHxD) - Shelf	446x85x509 mm / 17.56x3.35x20.04 inch			
Packing	Module : 3.8kg; 4pcs / 17.2kg; Shelf : 6.5kg; 1pc / 7.5kg			

Packing Information

	DC Input	AC Input	AC Output	Connection Type	PCS/CTN	N.W./CTN (KGS)	G.W./CTN (KGS)	CBM /CTN	PCS /PLT	CARTONS/ PLT
SR -1000	24V, 48V		97-123V, 194-246V	IEC, HW	2	15	16	0.08	64	32
SR - 1600 Module	24V, 48V	75-132V, 150-265V	100-120V, 200-240V	HW	4	15.2	16.8	0.09	80	20
SR - 1600 Rack		75-132V, 150-265V	100-120V, 200-240V	HW	1	6.5	7.5	0.08	16	16

*The above information is for reference only, subject to change without notice



SR1000T

Rack Mount Inverter

- Standard 19" 1U rack mount
- Pure sine wave output (THD < 2%)
- User-friendly LCM module
- RS-232 communication port
- Selectable on-line / off-line modes

	SR1000T-124	SR1000T-148	SR1000T-224	SR1000T-248
Output				
Continuous Output Power	1000W			
Max. Output Power (3 Min.)	1100W			
Surge Power	2000W			
Frequency	47~63 Hz ± 0.5% (User selectable)			
Output Voltage	97~123VAC (User selectable)		194~246VAC (User selectable)	
Efficiency (Full Load)	87%	88%	90%	91%
Output Waveform	Pure Sine Wave (THD<2%)			
Input				
DC Voltage	24VDC	48VDC	24VDC	48VDC
Voltage Range	18~34VDC	36~68VDC/36~60VDC (Only UL)	18~34VDC	36~68VDC/36~60VDC (Only UL)
No Load Current	1.4 A	0.75 A	1.3 A	0.7 A
Control & Signal				
LCD Panel	2-line LCD Panel			
LED Indicator	Input voltage level, output load level and faulty status			
Dry Contact Terminal	By relay			
Remote Control Port	RJ-11			
Protection				
Input Protection	Over Voltage / Under Voltage / Reverse Polarity (Fuse)			
AC Output Protection	Short Circuit / Overload / Over Temperature			
AC Input Protection	12Amp Circuit Breaker		6Amp Circuit Breaker	
Bypass Relay				
Relay Specification	15Amp / 120VAC, 10Amp / 250VAC			
Bypass Relay Selectable	On line / Off line (Haphazard, Normal, Exacting) selectable			
Switching Time	From AC bypass mode (off-line mode): ≤20ms / From DC to AC inverter mode (on-line mode): ≤8ms (exacting mode)			
Environment				
Working Temp. (Full Load)	0°C ~ 50°C			
Storage Temp.	-30°C ~ 70°C			
Safety & EMC				
Safety Standards	UL62368-1		EN62368-1	
EMC Standards	FCC class B		EN 55032 class B; EN 61000-3-2, -3-3 EN 55024; IEC 61000-4-2, 3, 4, 5, 6, 8, 11	
Other				
Failure Indication	Buzzer alarm and dry contact			
Dimension (WxHxD)	483x44x345 mm / 19.02x1.73x13.58 inch			
Packing	7.46kg; 2pcs / 15.9kg / 1.74CUFT			
Cooling	Thermal and load control fan			
Application	Focus on telecommunication (base-station), networking (data center) and battery backup systems			