COTEK

Authorized Regional Distributor: ComMax

Parallelable Power Inverter - SD series

Model	:	**SD-1500 / SD-2500 / SD-3500**
Capacity	:	1500 VA / 2500 VA / 3500 VA
DC Input	:	12V / 24V / 48V *(pls. specify)*
AC Output	:	110V / 220V *(pls. specify)*, pure sine wave
AC Bypass	:	Same voltage as AC output
Frequency	:	50 Hz / 60 Hz

Features:

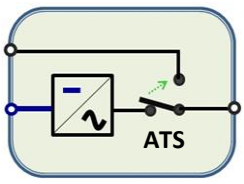
Parallel redundancy design for power expansion.
Multiple Industrial applications, 1Ph 2W / 1Ph 3W / 3Ph 4W
Automatic master mechanism to eliminate single point failure & optimize reliability.
Built-in ATS and AC circuit breaker.
Communication : RS-232 & Ethernet (optional, built-in)
Optional STS module, transfer time less 4 mS.
Able to setting DC priority (DC mode) or AC priority (AC mode)
Input & Output fully isolation.
Two AC output connection types, both terminal block & socket.
E13 / UL / CE / FCC approved
Remote controller with LCD display, CR-10 (optional)

SD with Universal Socket (220Vac)

SD with NEMA Socket (110Vac)

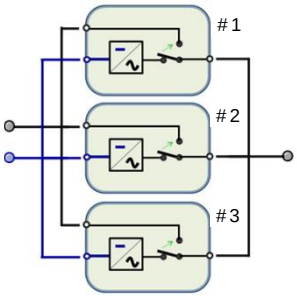
AC Input
From Utility
Or Generator

DC Input
From Battery
Or Rectifier
12 or 24 or 48V



AC Output

Multi-unit Parallel connection to power expansion



Remote Controller
CR-10
(optional)

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Model	SD-1500- 1xx 2xx	SD-2500- 1xx 2xx	SD-3500- 1xx 2xx
Output Rating Power	1500 VA	2500 VA	3500 VA
Surge Power, (0.2 Sec)	2400 VA	4000 VA	6000 VA
Max. Power, (1 min)	1800 VA	3000 VA	4500 VA
Output Waveform	Pure Sine Wave (THD<3% @ 1.15 times of the rated VDC, rated AC voltage, linear load)		
AC Output Voltage	[2] 200 / 220 / 230 / 240 Vac ±3% or [1] 100 / 110 / 115 / 20 Vac ±3% (selectable) (Pls. specify)		
AC Output Frequency	50 / 60 Hz ±0.1% (selectable)		
DC Input Voltage	xx 12 Vdc / 24 Vdc / 48 Vdc (Pls. specify)		
DC Input Voltage Range	10.5~16.0 Vdc (12Vdc) ; 20.0~32.0 Vdc (24Vdc) ; 40.0~64.0 Vdc (48Vdc)		
Input No Load Current	≦2.4 ~ 3.3A @ 12Vdc ≦1.2 ~ 1.6A @ 24Vdc ≦0.6 ~ 0.8A @ 48Vdc	≦2.9 ~ 3.6A @ 12Vdc ≦1.4 ~ 1.8A @ 24Vdc ≦0.8 ~ 1.0A @ 48Vdc	≦2.9 ~ 3.6A @ 12Vdc ≦1.4 ~ 1.8A @ 24Vdc ≦0.8 ~ 1.0A @ 48Vdc
Power Saving Mode	< 0.9 ~ 1.1A @ 12Vdc < 0.4 ~ 0.7A @ 24Vdc < 0.3 ~ 0.4A @ 48Vdc	< 0.9 ~ 1.1A @ 12Vdc < 0.4 ~ 0.7A @ 24Vdc < 0.3 ~ 0.4A @ 48Vdc	< 1.4A @ 12Vdc < 0.5A @ 24Vdc < 0.5A @ 48Vdc
Efficiency (Max.)	88~90%	88~90%	90~91%
AC Input Range	200 / 220 / 230 / 240 Vac ±12.5% or 100 / 110 / 115 / 20 Vac ±12.5%		
Synchronous Frequency	47 ~ 53 / 57~ 63 Hz		
Circuit Breaker	10A @ 220Vac ; 20A @ 110Vac		
Auto Transfer Switch	Standard ATS : Inverter to Utility AC < 8~10mS ; Utility AC to Inverter < 16~50mS Optional STS modules : 4~6 mS		
Protection – input UVP	Protection : 10.5 Vdc / 21.0 Vdc / 42.0 Vdc ± 3% Recovery : 12.5 Vdc / 25.0 Vdc / 50.0 Vdc ± 3%		
Protection – input OVP	Protection : 16.0 Vdc / 32.0 Vdc / 64.0 Vdc ± 3% Recovery : 15.0 Vdc / 30.0 Vdc / 60.0 Vdc ± 3%		
Input Protection	Reverse Polarity(Fuse) / Under Voltage / Over Voltage / AC over current (Breaker)		
Output Protection	Short Circuit / Overload / Over Temperature / Over Voltage		
Operating Temperature	-20 ~ +60 ℃ ; Full load < 40C , de-rate output power when >40℃		
Storage Temp & Humidity	-40 ~ +70 ℃ , 10~90% RH (non condensing)		
Safety Standards	Certificated UL 458 @110Vac (For 12Vdc & 24Vdc) ; Certificated EN60950-1 @ 220Vac		
EMC Standards	110Vac : Certificated FCC Class B 220Vac : Certificated EN55014-1 ; EN55014-2 (class B, output cable < 2meter) EN61000-3-2 , EN61000-3-3; EN61000-4-2 , 3, 4, 5, 6, 11		
E-Mark	For 220Vac : Certificated CISPR 25, ISO 7637-2; Meet ISO 11452-2		
LED Indicator	Input voltage level & faulty status		
Remote Control	Optional, CR-6 , CR-8 and CR-10		
Communication port	RS-232 (RJ-11 type connector) , Ethernet (Optional)		
Dimension (WxHxD),mm	283x128x351	283x128x436	283x128x496
Weight, Kg	5.5	8	10
Cooling	Temperature & load controlled cooling fan		
Application	Home and office applications, portable power equipment, vehicle, yacht and off-grid solar power system … etc.		

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