

SERIE SDP INVERTER HEAVY DUTY AD ALTA AFFIDABILITA'



INVERTER TRIFASE HEAVY DUTY

Serie di inverter per utilizzi professionali 24h al giorno. Per attività commerciali e artigianali, utenze isolate ed ovunque si voglia ottenere l'autonomia energetica anche per grandi potenze. Uscita monofase e trifase.

Onda sinusoidale pura. Alto rendimento, e basso consumo a vuoto

Commutatore automatico rete/batterie. Funzionamento stand alone/UPS.

Si può impostare la priorità batteria o rete luce.

Modelli da 15KW a 200KW

Questa linea di inverter è il risultato di 15 anni di produzione di inverter per usi off-grid (impianti ad isola)

Le ultime innovazioni riguardano il sistema di controllo e gestione della potenza, utilizzando i moduli di quinta generazione della giapponese Mitsubishi. Le funzioni di protezione e controllo, sono gestiti da un microprocessore, permettendo un più affidabile funzionamento e maggiore durata di vita che è considerata in oltre i 15 anni di lavoro continuo.

Sono possibili due sistemi di attivazione: a frequenza variabile o a tensione crescente, settabili attraverso il software di gestione.

Gli inverter SDP sono specialmente efficaci nell'alimentazione di apparati con carico induttivo come: pompe per acqua-motori-banchi frigo- condizionatori. Il carico applicabile in condizioni di spunto, è pari a tre volte la potenza resa.

La tensione di uscita può essere regolata dal - 20% al +40% della tensione standard.

La tensione continua di ingresso può essere tarata per ottimizzare il numero di batterie. Anche le tensioni di distacco e riconnessione alle batterie, sono regolabili.

Queste serie di inverter necessita di un caricatore solare, adatto a questa serie di inverte, fornibile a parte.

Il nostro servizio tecnico è a disposizione per la configurazione e suggerimenti per ogni tipo di impianto

Technical Parameters

Model		SDP-2KW		SDP-3KW	
Isolation mode		Low Frequency Transformer			
DC Input	Rated voltage (Vdc)	48V			
	Rated current (A)	41.6A		62.5A	
AC Output	Rated output power	2KW		3KW	
	Output waveform	Pure Sine Wave			
	Rated Voltage	220V±3%	380VAC±3%	220V±3%	380VAC±3%
	Phases	Single phase	3 phase 4 wire	Single phase	3 phase 4 wire
	Rated current (A)	9.1A	3A (phase current)	13.6A	4.5A (phase current)
	Frequency	50Hz or 60Hz			
	Rated output voltage range (V)	110/120/220/230/240/380/400/415VAC optional			
	Power Factor (PF)	0.95			
	Overload Ability	150%, 5 seconds			
	Efficiency	>93%			
	Waveform distortion rate (THD)	<3% (Linear load)			
	Dynamic Response (0 to 100% load)	5%, ≤50ms			
	Display	LCD			
	Running mode	Working continuously			
	Electrical insulation properties	2000Vac, 1 Minute			
Protection Function	Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.			
	Cooling method	Fan-cooled			
	Short-circuit protection	No automatic recovery, need to restart the machine			
Working environment	Noise (1 meter)	≤50dB			
	Degree of protection	IP20 (indoor)			
	Working Altitude (m)	≤2000			
	Working temperature	-25~+55℃			
	relative humidity	0~90%, non-condensing			
Mechanical dimension	Depth* Width * Height	450x400x700mm			
	Weight (Kg)	65Kg			

Model		SDP-4000W	
Isolation mode		Low Frequency Transformer	
DC Input	Input rated voltage (Vdc)	48V	96V
	Input rated current (A)	83.3A	42A
AC Output	Rated output power	4000W	
	Output waveform	Pure sine wave	
	Phases	Single phase 2 wire + ground	3 phase 4 wire + ground
	Output rated voltage	220VAC ±3%	380VAC ±3%
	Output Frequency	50Hz or 60Hz±0.05Hz	
	Output voltage range (V)	110/120/220/230/240/380/400/415VAC optional	
	Power Factor (PF)	0.95	
	Overload Ability	150%, 10s	
	Efficiency	>93%	
	Waveform distortion rate (THD)	<3% (Linear load)	
	Dynamic Response (0 to 100% load)	5%, ≤30ms	
	Display	LCD	
	Running mode	Working continuously	
Electrical insulation properties	2000Vac, 1 Minute		
Protection function	Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.	
	Cooling method	Fan-cooled	
	Short-circuit protection	No automatic recovery, need to restart the machine	
working environment	Ambient temperature	-15~+55℃	
	Using environment humidity	0~90%, No condensation	
	Noise (1 meter)	≤50dB	
	Degree of protection	IP20 (indoor)	
	Using altitude (m)	≤2000	
Mechanical dimension	Depth* Width * Height	450x400x700mm	
	Weight (Kg)	65kg	
CE Standard	EN60950-1:2006+A11:2009, EN61000-6-4:2007+A1:2001, EN61000-6-2:2005, EN61000-3-12:2005, EN61000-3-11:2000		

Model		SDP-5KW		SDP-6KW	
Isolation mode		Low Frequency Transformer			
DC Input	Rated voltage (Vdc)	96V	120V	96V	120V
	Rated current (A)	52A	42A	62.5A	50A
AC Output	Rated output power	5KW		6KW	
	Output waveform	Pure Sine Wave			
	Rated Voltage	220V±3%	380VAC±3%	220V±3%	380VAC±3%
	Phases	Single phase	3 phase 4 wire	Single phase	3 phase 4 wire
	Rated current (A)	23A	7.6A (phase current)	27A	9A (phase current)
	Frequency	50Hz or 60Hz			
	Rated output voltage range (V)	110/120/220/230/240/380/400/415VAC optional			
	Power Factor (PF)	0.95			
	Overload Ability	150%, 5 seconds			
	Efficiency	>93%			
	Waveform distortion rate (THD)	<3% (Linear load)			
	Dynamic Response (0 to 100% load)	5%, ≤50ms			
	Display	LCD			
	Running mode	Working continuously			
	Electrical insulation properties	2000Vac, 1 Minute			
Protection Function	Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.			
	Cooling method	Fan-cooled			
	Short-circuit protection	No automatic recovery, need to restart the machine			
Working environment	Noise (1 meter)	≤50dB			
	Degree of protection	IP20 (indoor)			
	Working Altitude (m)	≤2000			
	Working temperature	-25~+55℃			
	relative humidity	0~90%, non-condensing			
Mechanical dimension	Depth* Width * Height	500x450x760mm			
	Weight (Kg)	75Kg		86Kg	

Model		SDP-8KW		SDP-10KW	
Isolation mode		Low Frequency Transformer			
DC Input	Rated voltage (Vdc)	120V	192V	192V	240V
	Rated current (A)	67A	42A	52A	42A
AC Output	Rated output power	8KW		10KW	
	Output waveform	Pure Sine Wave			
	Rated Voltage	220V±3%	380VAC±3%	220V±3%	380VAC±3%
	Phases	Single phase	3 phase 4 wire	Single phase	3 phase 4 wire
	Rated current (A)	36A	12A (phase current)	45.5A	15A (phase current)
	Frequency	50Hz or 60Hz			
	Rated output voltage range (V)	110/120/220/230/240/380/400/415VAC optional			
	Power Factor (PF)	>0.95			
	Overload Ability	150%, 5 seconds			
	Efficiency	>94%			
	Waveform distortion rate (THD)	<3% (Linear load)			
	Dynamic Response (0 to 100% load)	5%, ≤50ms			
	Display	LCD			
	Running mode	Working continuously			
	Electrical insulation properties	2000Vac, 1 Minute			
Protection Function	Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.			
	Cooling method	Fan-cooled			
	Short-circuit protection	No automatic recovery, need to restart the machine			
Working environment	Noise (1 meter)	≤50dB			
	Degree of protection	IP20 (indoor)			
	Working Altitude (m)	≤2000			
	Working temperature	-25~+55℃			
	relative humidity	0~90%, non-condensing			
Mechanical dimension	Depth* Width * Height	540x540x760mm			
	Weight (Kg)	102Kg		110Kg	

Model		SDP-12KW		SDP-15KW	
Isolation mode		Low Frequency Transformer			
DC Input	Rated voltage (Vdc)	192V	240V	192V	240V
	Rated current (A)	62.5A	50A	78A	62.5A
AC Output	Rated output power	12KW		15KW	
	Output waveform	Pure Sine Wave			
	Rated Voltage	220V±3%	380VAC±3%	220V±3%	380VAC±3%
	Phases	Single phase	3 phase 4 wire	Single phase	3 phase 4 wire
	Rated current (A)	55A	18A (phase current)	68A	23A (phase current)
	Frequency	50Hz or 60Hz			
	Rated output voltage range (V)	110/120/220/230/240/380/400/415VAC optional			
	Power Factor (PF)	>0.95			
	Overload Ability	150%, 5 seconds			
	Efficiency	>94%			
	Waveform distortion rate (THD)	<3% (Linear load)			
	Dynamic Response (0 to 100% load)	5%, ≤50ms			
	Display	LCD			
	Running mode	Working continuously			
	Electrical insulation properties	2000Vac, 1 Minute			
Protection Function	Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.			
	Cooling method	Fan-cooled			
	Short-circuit protection	No automatic recovery, need to restart the machine			
Working environment	Noise (1 meter)	≤50dB			
	Degree of protection	IP20 (indoor)			
	Working Altitude (m)	≤2000			
	Working temperature	-25~+55℃			
	relative humidity	0~90%, non-condensing			
Mechanical dimension	Depth* Width * Height	500x600x800mm			
	Weight (Kg)	122Kg		150Kg	

Model		SDP-20KW		SDP-25KW	
Isolation mode		Low Frequency Transformer			
DC Input	Rated voltage (Vdc)	220V	240V	240V	
	Rated current (A)	91A	83A	104A	
AC Output	Rated output power	20KW		25KW	
	Output waveform	Pure Sine Wave			
	Rated Voltage	220V±3%	380VAC±3%	220V±3%	380VAC±3%
	Phases	Single phase	3 phase 4 wire	Single phase	3 phase 4 wire
	Rated current (A)	91A	31A (phase current)	114A	38A (phase current)
	Frequency	50Hz or 60Hz			
	Rated output voltage range (V)	110/120/220/230/240/380/400/415VAC optional			
	Power Factor (PF)	>0.95			
	Overload Ability	150%, 5 seconds			
	Efficiency	>94%			
	Waveform distortion rate (THD)	<3% (Linear load)			
	Dynamic Response (0 to 100% load)	5%, ≤50ms			
	Display	LCD			
	Running mode	Working continuously			
	Electrical insulation properties	2000Vac, 1 Minute			
Protection Function	Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.			
	Cooling method	Fan-cooled			
	Short-circuit protection	No automatic recovery, need to restart the machine			
Working environment	Noise (1 meter)	≤50dB			
	Degree of protection	IP20 (indoor)			
	Working Altitude (m)	≤2000			
	Working temperature	-25~+55℃			
	relative humidity	0~90%, non-condensing			
Mechanical dimension	Depth* Width * Height	550x700x1000mm			
	Weight (Kg)	185Kg		230Kg	

Model		SDP-30KW		SDP-40KW	
Isolation mode		Low Frequency Transformer			
DC Input	Rated voltage (Vdc)	240V	300V	360V	
	Rated current (A)	125A	100A	111A	
AC Output	Rated output power	30KW		40KW	
	Output waveform	Pure Sine Wave			
	Rated Voltage	220V±3%	380VAC±3%	220V±3%	380VAC±3%
	Phases	Single phase	3 phase 4 wire	Single phase	3 phase 4 wire
	Rated current (A)	136A	45.5A (phase current)	182A	61A (phase current)
	Frequency	50Hz or 60Hz			
	Rated output voltage range (V)	220/230/240/380/400/415VAC optional			
	Power Factor (PF)	>0.95			
	Overload Ability	150%, 5 seconds			
	Efficiency	>94%			
	Waveform distortion rate (THD)	<3% (Linear load)			
	Dynamic Response (0 to 100% load)	5%, ≤50ms			
	Display	LCD			
	Running mode	Working continuously			
	Electrical insulation properties	2000Vac, 1 Minute			
Protection Function	Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.			
	Cooling method	Fan-cooled			
	Short-circuit protection	No automatic recovery, need to restart the machine			
Working environment	Noise (1 meter)	≤50dB			
	Degree of protection	IP20 (indoor)			
	Working Altitude (m)	≤2000			
	Working temperature	-25~+55℃			
	relative humidity	0~90%, non-condensing			
Mechanical dimension	Depth* Width * Height	650x750x1100mm			
	Weight (Kg)	260Kg		350Kg	

Model		SDP-50KW	SDP-60KW
Isolation mode		Low Frequency Transformer	
DC Input	Rated voltage (Vdc)	360V	
	Rated current (A)	139A	167A
AC Output	Rated output power	50KW	60KW
	Output waveform	Pure Sine Wave	
	Rated Voltage	380VAC±3%	380VAC±3%
	Phases	3 phase 4 wire	3 phase 4 wire
	Rated current (A)	76A (phase current)	91A (phase current)
	Frequency	50Hz or 60Hz	
	Rated output voltage range (V)	380/400/415/440VAC optional	
	Power Factor (PF)	>0.95	
	Overload Ability	150%, 5 seconds	
	Efficiency	>94%	
	Waveform distortion rate (THD)	<3% (Linear load)	
	Dynamic Response (0 to 100% load)	5%, ≤50ms	
	Display	LCD	
	Running mode	Working continuously	
	Electrical insulation properties	2000Vac, 1 Minute	
Protection Function	Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.	
	Cooling method	Fan-cooled	
	Short-circuit protection	No automatic recovery, need to restart the machine	
Working environment	Noise (1 meter)	≤50dB	
	Degree of protection	IP20 (indoor)	
	Working Altitude (m)	≤2000	
	Working temperature	-25~+55℃	
	relative humidity	0~90%, non-condensing	
Mechanical dimension	Depth* Width * Height	800x850x1200mm	
	Weight (Kg)	420Kg	450Kg

Model		SDP-80KW	SDP-100KW
Isolation mode		Low Frequency Transformer	
DC Input	Rated voltage (Vdc)	480V	
	Rated current (A)	167A	208A
AC Output	Rated output power	80KW	100KW
	Output waveform	Pure Sine Wave	
	Rated Voltage	380VAC±3%	380VAC±3%
	Phases	3 phase 4 wire	3 phase 4 wire
	Rated current (A)	121A (phase current)	152A (phase current)
	Frequency	50Hz or 60Hz	
	Rated output voltage range (V)	380/400/415/440VAC optional	
	Power Factor (PF)	>0.95	
	Overload Ability	150%, 5 seconds	
	Efficiency	>94%	
	Waveform distortion rate (THD)	<3% (Linear load)	
	Dynamic Response (0 to 100% load)	5%, ≤50ms	
	Display	LCD	
	Running mode	Working continuously	
	Electrical insulation properties	2000Vac, 1 Minute	
Protection Function	Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.	
	Cooling method	Fan-cooled	
	Short-circuit protection	No automatic recovery, need to restart the machine	
Working environment	Noise (1 meter)	≤50dB	
	Degree of protection	IP20 (indoor)	
	Working Altitude (m)	≤2000	
	Working temperature	-25~+55℃	
	relative humidity	0~90%, non-condensing	
Mechanical dimension	Depth* Width * Height	900x1100x1600mm	
	Weight (Kg)	520Kg	600Kg

Model		SDP-120KW	SDP-150KW
Isolation mode		Low Frequency Transformer	
DC Input	Rated voltage (Vdc)	480V	
	Rated current (A)	250A	312.5A
AC Output	Rated output power	120KW	150KW
	Output waveform	Pure Sine Wave	
	Rated Voltage	380VAC±3%	380VAC±3%
	Phases	3 phase 4 wire	3 phase 4 wire
	Rated current (A)	182A (phase current)	227A (phase current)
	Frequency	50Hz or 60Hz	
	Rated output voltage range (V)	380/400/415/440VAC optional	
	Power Factor (PF)	>0.95	
	Overload Ability	150%, 5 seconds	
	Efficiency	>94%	
	Waveform distortion rate (THD)	<3% (Linear load)	
	Dynamic Response (0 to 100% load)	5%, ≤50ms	
	Display	LCD	
	Running mode	Working continuously	
	Electrical insulation properties	2000Vac, 1 Minute	
Protection Function	Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.	
	Cooling method	Fan-cooled	
	Short-circuit protection	No automatic recovery, need to restart the machine	
Working environment	Noise (1 meter)	≤50dB	
	Degree of protection	IP20 (indoor)	
	Working Altitude (m)	≤2000	
	Working temperature	-25~+55℃	
	relative humidity	0~90%, non-condensing	
Mechanical dimension	Depth* Width * Height	900x1100x1600mm	
	Weight (Kg)	560Kg	600Kg

Model		SDP-200KW	SDP-250KW
Isolation mode		Low Frequency Transformer	
DC Input	Rated voltage (Vdc)	600V	
	Rated current (A)	333A	417A
AC Output	Rated output power	200KW	250KW
	Output waveform	Pure Sine Wave	
	Rated Voltage	380VAC±3%	380VAC±3%
	Phases	3 phase 4 wire	3 phase 4 wire
	Rated current (A)	303A (phase current)	379A (phase current)
	Frequency	50Hz or 60Hz	
	Rated output voltage range (V)	380/400/415/440VAC optional	
	Power Factor (PF)	>0.95	
	Overload Ability	150%, 5 seconds	
	Efficiency	>94%	
	Waveform distortion rate (THD)	<3% (Linear load)	
	Dynamic Response (0 to 100% load)	5%, ≤50ms	
	Display	LCD	
	Running mode	Working continuously	
	Electrical insulation properties	2000Vac, 1 Minute	
Protection Function	Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.	
	Cooling method	Fan-cooled	
	Short-circuit protection	No automatic recovery, need to restart the machine	
Working environment	Noise (1 meter)	≤50dB	
	Degree of protection	IP20 (indoor)	
	Working Altitude (m)	≤2000	
	Working temperature	-25~+55℃	
	relative humidity	0~90%, non-condensing	
Mechanical dimension	Depth* Width * Height	1200x1500x1800mm	
	Weight (Kg)	800Kg	900Kg

Model		SDP-300KW	SDP-500KW
Isolation mode		Low Frequency Transformer	
DC Input	Input rated voltage (Vdc)	600V	720V
	Input rated current (A)	500A	694.4A
AC Output	Rated output power	300KW	500KW
	Output waveform	Pure sine wave	
	Phases	3 phase 4 wire + ground	
	Output rated voltage	380VAC \pm 3%	
	Output rated current	455.2A (phase current)	758.8A (phase current)
	Output Frequency	50Hz or 60Hz \pm 0.05Hz	
	Rated output Voltage (V)	380/400/415/440VAC optional	
	Power Factor (PF)	>0.95	
	Overload Ability	150%, 10s	
	Efficiency	\geq 94%	
	Waveform distortion rate (THD)	<3% (Linear load)	
	Dynamic Response (0 to 100% load)	5%, \leq 30ms	
	Display	LCD	
	Running mode	Working continuously	
Electrical insulation properties	2000Vac, 1 Minute		
Protection function	Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.	
	Cooling method	Fan-cooled	
	Short-circuit protection	No automatic recovery, need to restart the machine	
working environment	Ambient temperature	-15~+55 $^{\circ}$ C	
	Using environment humidity	0~90%, No condensation	
	Noise (1 meter)	\leq 50dB	
	Degree of protection	IP20 (indoor)	
	Using altitude (m)	\leq 2000	
CE Standard	EN60950-1:2006+A11:2009, EN61000-6-4:2007+A1:2001, EN61000-6-2:2005, EN61000-3-12:2005, EN61000-3-11:2000		

