HDSX
Three Phase Inverter

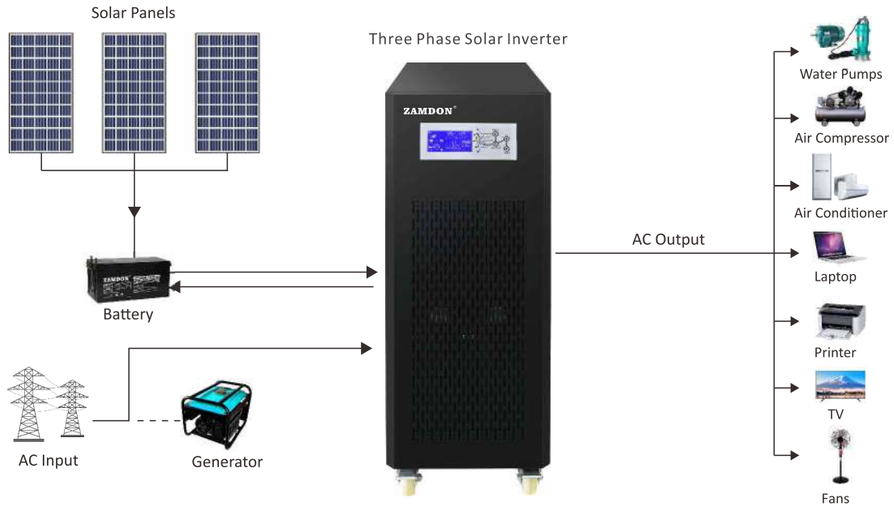
Product Description

- Pure sine wave output;
  - Low DC voltage, saving system cost;
- Built-in PWM or MPPT charge controller;
  - AC charge current 0-45A adjustable;
- Wide LCD screen, clearly and precisely shows icon data;
  - 100% imbalance loading design, 3 times peak power;
- Setting different working modes based on variable usage requirements;
  - Various communication ports and Remote monitoring RS485/APP(WIFI/GPRS) (Optional).

Application Area

- Medium IDC data exchange center machine room, medium scale network management system, billing center, bank/securities settlement center, industrial process control applications, traffic control areas etc.
  - Provide stable, reliable and safe solutions for families, islands, ships and other small photovoltaic power systems

System Application Diagram



Technical Parameters

Model: HDSX		32248/96/192	48248/96/192	56248/96/192	64248/96/192	80248/96/192	10348/96/192	12348/96/192	16396/192	20396/192	24396/192
Rated Power		4KVA/3.2KW	6KVA/4.8KW	7KVA/5.6KW	8KVA/6.4KW	10KVA/8KW	12.5KVA/10KW	15KVA/12KW	20KVA/16KW	25KVA/20KW	30KVA/24KW
Peak Power(20ms)		9.6KVA	14.4KVA	16.8KVA	19.2KVA	24KVA	30KVA	36KVA	48KVA	60KVA	72KVA
Start Motor		3HP	4HP	4HP	4HP	5HP	6HP	7HP	10HP	10HP	15HP
Battery Voltage		48/96/192VDC							96/192VDC		
Built-in solar controller charging current (Optional)		PWM:10A-60A(48V System);50A/100A(96V System);50A(192V System) MPPT:10A-100A(48V System);50A/100A(96V System)				PWM: 50A/100A(96V System); 50A/100A(192V System) MPPT: 50A/100A(96V System)					
Size(L*W*Hmm)		565*300*775				725*365*1010					
Package Size(L*W*Hmm)		625*360*895				785*425*1135					
N.W.(kg)		65	73	75	80	112	122	134	160	176	189
G.W.(kg)(Wooden Packing)		78	86	88	93	136	146	158	184	200	213
Installation Method		Tower									
Model: HDSX		**323192**	**403192**	**483384**	**643384**	**803384**	**963384**	**1003384**	**1203384**	**1283384**	**1503384**	**1603384**
Rated Power		40KVA/32KW	50KVA/40KW	60KVA/48KW	80KVA/64KW	100KVA/80KW	120KVA/96KW	125KVA/100KW	150KVA/120KW	160KVA/128KW	190KVA/150KW	200KVA/160KW
Peak Power(20ms)		96KVA	120KVA	144KVA	192KVA	240KVA	288KVA	300KVA	360KVA	384KVA	450KVA	480KVA
Start Motor		15HP	20HP	25HP	30HP	40HP	50HP	50HP	60HP	60HP	80HP	80HP
Battery Voltage		192VDC		384VDC								
Built-in solar controller charging current (Optional)		PWM:100A-200A(192V&384V System) MPPT:50A/100A(192V&384V System)				PWM: 100A-200A / MPPT: 50A/100A						
Size(L*W*Hmm)		720*575*1275				875*720*1380					1123*900*1605	
Package Size(L*W*Hmm)		785*640*1400				980*825*1560					1185*960*1750	
N.W.(kg)		240	260	290	308	512	542	552	612	642	705	755
G.W.(kg)(Wooden Packing)		273	293	323	341	552	582	592	652	692	755	805
Installation Method		Tower										
Input	DC Input Voltage Range	10.5-15VDC(Single battery voltage)										
	AC Input Voltage Range	380Vac/400Vac -85%~+120%(customized 190Vac/200Vac)										
	AC Input Frequency Range	45Hz-55Hz(50Hz)/ 55Hz-65Hz(60Hz)										
	Max AC charging current	0~45A (Depending on the model)										
	AC charging method	Three-stage (constant current, constant voltage, floating charge)										
	Phase	3/N/PE										
Output	Efficiency(Battery Mode)	≥85%										
	Output Voltage(Battery Mode)	380Vac/400Vac±2%(customized 190Vac/200Vac)										
	Output Frequency(Battery Mode)	50/60Hz±1%										
	Output Wave(Battery Mode)	Pure Sine Wave										
	Output waveform distortion	Linear loads≤3%										
	Efficiency(AC Mode)	>99%										
	Output Voltage(AC Mode)	Conforming to AC input										
	Output Frequency(AC Mode)	Conforming to AC input										
	No load loss(Battery Mode)	≤2.5% rated power(4KVA-30KVA models); ≤1% rated power(40KVA-200KVA models)										
	No load loss(AC Mode)	≤2% rated power(charger does not work in AC mode)										
	No load loss(Energy saving Mode)	≤10W										
	Phase	3/N/PE										
Battery Type	VRLA Battery	Charge Voltage :13.8V; Float Voltage:13.7V(Single battery voltage)										
	Customize battery	Charging and discharging parameters of different types of batteries can be customized according to user requirements (charging and discharging parameters of different types of batteries can be set through the operation panel)										
Protection	Battery undervoltage alarm	11V(Single battery voltage)										
	Battery undervoltage protection	10.5V(Single battery voltage)										
	Battery overvoltage alarm	15V(Single battery voltage)										
	Battery overvoltage protection	17V(Single battery voltage)										
	Battery overvoltage recovery voltage	14.5V(Single battery voltage)										
	Overload power protection	Automatic protection (battery mode), circuit breaker or insurance (AC mode)										
	Inverter output short circuit protection	Automatic protection (battery mode), circuit breaker or insurance (AC mode)										
	Temperature protection	>90°C(Shut down output)										
Alarm	A	Normal working condition, buzzer has no alarm sound										
	B	Buzzer sounds 4 times per second when battery failure, voltage abnormality, overload protection										
	C	When the machine is turned on for the first time, the buzzer will prompt 5 when the machine is normal										
Inside Solar controller (Optional)	Charging Mode	MPPT or PWM										
	Charging current	PWM: 10A/20A/30A/40A/50A/60A(48V System); 50A/100A/150A/200A(96V/192V/384V System) MPPT: 10A/20A/30A/40A/50A/60A/80A/100A(48V System); 50A/100A(96V/192V/384V System)										
	PV Input Voltage Range	PWM: 60V-88V(48V System); 120V-176V(96V System); 240V-352V(192V System); 480V-704V(384V System) MPPT: 60V-120V(48V System); 120V-240V(96V System); 240V-360V(192V System); 480V-640V(384V System)										
	Max PV Input Voltage(Voc) (At the lowest temperature)	PWM: 100V(48V System); 200V(96V System); 400V(192V System); 750V(384V System) MPPT: 150V(48V System); 300V(96V System); 450V(192V System); 800V(384V System)										
	PV Array Maximum Power	48V System: 560W(10A)/1120W(20A)/1680W(30A)/2240W(40A)/2800W(50A)/3360W(60A) 96V System: (PWM: 5.6KW(50A)/11.2KW(100A)) / (MPPT: 5.6KW(50A)/5.6KW*2(100A)); 192V System: (PWM: 11.2KW(50A)/22.4KW(100A)/16.8KW*2(150A)/22.4KW*2(200A)) / (MPPT: 11.2KW(50A)/11.2KW*2(100A)); 384V System: (PWM: 22.4KW(50A)/44.8KW(100A)/33.6KW*2(150A)/44.8KW*2(200A)) / (MPPT: 22.4KW(50A)/22.4KW*2(100A))										
	Standby loss	≤3W										
	Maximum conversion efficiency	>95%										
Working Mode		Battery First/AC First/Saving Energy Mode										
Transfer Time		≤4ms										
Display		LCD										
Thermal method		Forced air cooling										
Communication(Optional)		RS485/APP(WIFI monitoring or GPRS monitoring)										
Environment	Operating temperature	-10℃~40℃										
	Storage temperature	-15℃~60℃										
	Noise	≤65dB										
	Elevation	2000m(More than derating)										
	Humidity	0%~95% (No condensation)										
Warranty		1 year										

Note: 1. Specifications are subject to change without prior notice; 2. Special voltage and power requirements can be customized according to the actual situation of users.