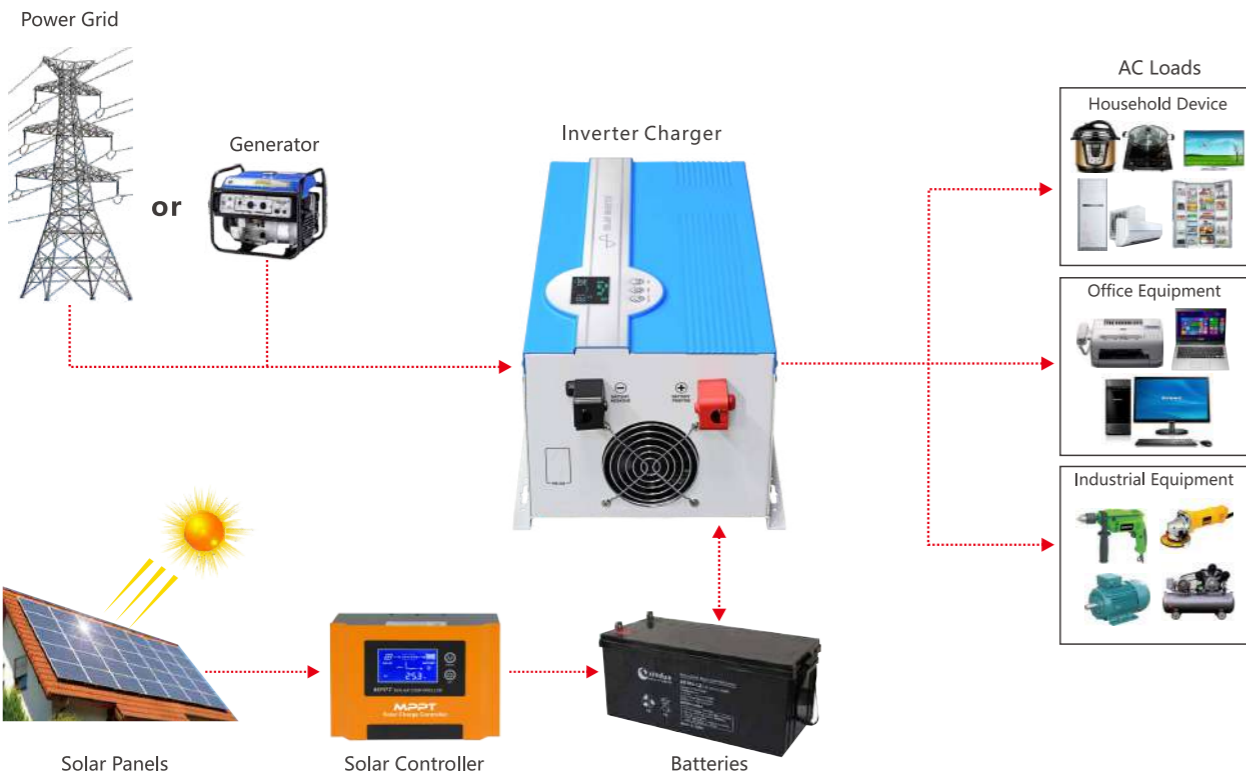# DA Inverter Charger

Feature

- El low frequency transformer,strong impact resistance;
- Dedicated micro-processing chip design, equipment operation speed is faster and more stable;
- LCD display,real-time view of setting parameters and operating status;
- AC charging current 0~30A adjustable,battery configurations are more flexible by users;
- Three working modes(AC first,battery first,energy-saving mode);
- Equipped with stable voltage and frequency output, stronger load compatibility;
- Perfect all-round automatic protection function, stable and reliable performance;
- Perfect fault code query function, convenient for users to monitor the running status in real time;
- Support diesel or petrol generators,adapt to any tough electricity environment;
- Support RS485 communication port/APP(Optional).

Application Area

- Office and public facilities, household system, network transmission equipment, manufacturing, control system, solar energy system, oil field, drilling field operation, etc.
- Provide stable, reliable and safe solutions for families, islands, ships and other small photovoltaic power systems

System Application Diagram

Power Grid

Generator

or

Inverter Charger

AC Loads

Household Device

Office Equipment

Industrial Equipment

Solar Panels

Solar Controller

Batteries

Technical Parameters

Model: DA	10212/24/48	15212/24/48	20212/24/48	30224/48	40224/48	50248	60248
Rated Power	1000W	1500W	2000W	3000W	4000W	5000W	6000W
Peak Power(20ms)	3000VA	4500VA	6000VA	9000VA	12000VA	15000VA	18000VA
Start Motor	1HP	1.5HP	2HP	3HP	3HP	4HP	4HP
Battery Voltage	12/24/48VDC		12/24/48VDC	24/48VDC	24/48VDC	48VDC	
Size(L*W*Hmm)	485*262*181				525*292*206		
Package Size(L*W*Hmm)	580*310*240				620*340*265		
N.W.(kg)	16	18	20	23	40	43	46
G.W.(kg)(Carton Packing)	18	20	22	25	43	46	49
Installation Method	Wall-Mounted						

Input	DC Input Voltage Range	10.5-15VDC (Single battery voltage)
	AC Input Voltage Range	85VAC~138VAC(110VAC)/95VAC~148VAC(120VAC)/170VAC~275VAC(220VAC)/180VAC~285VAC(230VAC)/190VAC~295VAC(240VAC)
	AC Input Frequency Range	45Hz~55Hz (50Hz) / 55Hz~65Hz (60Hz)
	Max AC charging current	0~30A (Depending on the model)
	AC charging method	Three-stage (constant current, constant voltage, floating charge)
Output	Efficiency(Battery Mode)	≥85%
	Output Voltage(Battery Mode)	110VAC±2% / 120VAC±2% / 220VAC±2% / 230VAC±2% / 240VAC±2%
	Output Frequency(Battery Mode)	50/60Hz±1%
	Output Wave(Battery Mode)	Pure Sine Wave
	Efficiency(AC Mode)	>99%
	Output Voltage(AC Mode)	110VAC±10% / 120VAC±10% / 220VAC±10% / 230VAC±10% / 240VAC±10%
	Output Frequency(AC Mode)	Tracking Automatically
	Output waveform distortion(Battery Mode)	≤3% (Linear load)
	No load loss(Battery Mode)	≤2.5% rated power
	No load loss(AC Mode)	≤2% rated power(charger does not work in AC mode)
	No load loss(Energy saving Mode)	≤10W
Battery Type	VRLA Battery	Charge Voltage :14.2V; Float Voltage:13.8V(12V system; 24V system x2 ; 48V system x4)
	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	Factory default: 11V(12V system; 24V system x2; 48V system x4)
	Battery undervoltage protection	Factory default: 10.5V (12V system; 24V system x2; 48V system x4)
	Battery overvoltage alarm	Factory default: 15V(12V system; 24V system x2; 48V system x4)
	Battery overvoltage protection	Factory default: 17V(12V system; 24V system x2; 48V system x4)
	Battery overvoltage recovery voltage	Factory default: 14.5V(12V system; 24V system x2; 48V system x4)
	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℃ (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
Working Mode		Battery First/AC First/Saving Energy Mode
Transfer Time		≤4ms
Display		LCD
Thermal method		Cooling fan in intelligent control
Communication(Optional)		RS485/APP (WIFI monitoring or GPRS monitoring)
Environment	Operating temperature	-10℃~40℃
	Storage temperature	-15℃~60℃
	Noise	≤55dB
	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.