

## HT Horizontal Type All-in-one Inverter Controller

SR-HT4825U80-145 /SR-HT4830U80-145 /SR-HT4835U80-145



### Product overview

HT series is a new all-in-one hybrid solar charge inverter, which integrates solar energy storage & means charging energy storage and AC sine wave output.

Thanks to DSP control and advanced control algorithm, it has high response speed, high reliability and high industrial standard.

### Performance characteristics

- It adopts full digital voltage and current double closed loop control, combined with advanced SPWM technology to output pure sine wave.
- Two output modes: mains bypass and inverter output enable uninterrupted power supply.
- 4 charging modes are available for choice: only PV, mains priority, PV priority, and hybrid charging.
- Advanced MPPT technology with efficiency up to 99.9%.
- LCD screen design, with 3 LED indicators, for dynamic display of system data and run status.
- ON/OFF rocker switch controls AC output.
- Power saving mode reduces no-load loss.
- Intelligent variable speed fan ensures efficient heat dissipation, and thereby extends system life.
- It comes with double lithium battery activation modes: mains and PV, and supports lead-acid battery and lithium battery access.
- Multiple protections provide 360° all-round protection for the system.
- Complete protections include multi-electrical appliance air switch short circuit protection, overvoltage and undervoltage protection, overload protection, back-flow protection, etc.
- Horizontal installation facilitates cabinet combination installation.
- Lithium battery can be activated by both mains and PV panel.

### Technical parameters >>>

Models	HT4825U80-145	HT4830U80-145	HT4835U80-145
AC mode			
Rated input voltage		110/120Vac	
Input voltage range		(90Vac~140Vac) ±2%	
Frequency		50Hz/ 60Hz (automatic detection)	
Frequency range		47±0.3Hz ~ 55±0.3Hz (50Hz);57±0.3Hz ~ 65±0.3Hz (60Hz);	
Overload/short circuit protection		Circuit breaker	
Efficiency		>95%	
Conversion time (bypass and inverter)		10ms (typical)	
AC backflow protection		yes	
Maximum bypass overload current		40A	
<b>Inverting mode</b>			
Output voltage waveform		Pure sine wave	
Rated output power (VA)	2500(2000/2180/2290)	3000(2500/2600/2750)	3500(2900/3000/3200)
Rated output power (W)	2500(2000/2180/2290)	3000(2500/2600/2750)	3500(2900/3000/3200)
Power factor		1	
Rated output voltage (Vac)		120Vac(100/105/110Vac Settable)	
Output voltage error		±5%	
Output frequency range (Hz)		50Hz ± 0.3Hz/60Hz ± 0.3Hz	
Efficiency		>91%	
Overload protection		(102% < load < 110%) ±10%: Report error and turn off output after 5 minutes; (110% < load < 125%) ±10%: Report error and turn off output after 10 seconds; Load > 125% ±10%: Report error and turn off output after 5 seconds;	
Peak power	4000VA	4500VA	5000VA
Loaded motor capacity	1HP	2HP	2HP
Output short circuit protection		Circuit breaker	
Bypass circuit breaker specification		63A	
Rated battery input voltage		48V (minimum starting voltage 44V)	
Battery voltage range		40.0Vdc~60Vdc ± 0.6Vdc (undervoltage alarm / shutdown voltage / overvoltage alarm / overvoltage recovery...LCD screen can be set)	
Eco mode		Load ≤50W	
<b>AC charge</b>			
Battery type		Lead acid or lithium battery	
Maximum charge current		40A	
Charge current error		± 5A dc	
Charge voltage range		40 ~60Vdc	
Short circuit protection		Circuit breaker	
Circuit breaker specification		( AC IN ) 63A/ ( BAT ) 125A	
Overcharge protection		Alarm and turn off charging in 1 minute.	
<b>Solar charge</b>			
Maximum PV open circuit voltage		145Vdc	
PV operating voltage range		60-145Vdc	
MPPT voltage range		60-115Vdc	
Battery voltage range		40-60Vdc	
Maximum output power		4200W	
PV charge current range (settable)		0-80A	
Charge short circuit protection		BAT circuit breaker and fuse	
Wiring protection		Reverse polarity protection	
<b>Authentication specification</b>			
Specification certification		CE(EN62109)	
EMC certification level		EN61000,C2	
Operating temperature range		-15°C to 55°C	
Storage temperature range		-25°C ~ 60°C	
RH range		5% to 95% (conformal coating protection)	
Noise		≤60dB	
Heat dissipation		Forced air cooling, adjustable air speed	
Communication interface		USB/RS485 (WiFi/GPRS)/Dry Node Control	
Dimensions (L*W*D)		482mm*425mm*133mm	
Weight (kg)		13.3	

