VHT-8K/10K/12K-25-H

15A

110%

25A

Max. PV Input Current Unbalanced Output Max. Charge/Discharge

Residential | Three Phase | HV Battery | 2 MPPTS

Features

Maximized Energy Harvesting

- 150%CD oversizing boosts solar capture
- 110% unbalanced output enhances self-consunption
- Continuous 110% AC overloading sustains power
- 10ms UPS-level switch secures supply

Engineered for Versatility

- Wide 135-750V range fits diverse batteries
- 200% max backup @60s handles overloads
- IP65 protects both indoors and outdoors
- Silent 25dB operation for comfort

Intelligent Energy Dynamics

- Five work modes for diverse use
- SupperToU station management:supports flexible and customizable operation modes.
- Centralized smart management for efficiency
- Supports diesel generators for diverse energy sourcing

Simplified Interaction

- Remote upgrades maintain system health
- OLED and App for easy control

VHT-8K/10K/12K-25-H **Hybrid Inverter**



Technical Specifications

Mode	VHT-8K	-25-H VHT	-10K-25-H VHT-12K-25-H	
PV Input	,			
1	(W] 12.		15.0 18.0	
Start-up voltage	[V] 138		135 135	
Max.DC input voltage*	[V] 100		1000*	
Rated DC input voltage	[V] 620		620 620	
MPPT voltage range*	[V] 200-9		00-950* 200-950*	
No.of MPP trackers	200-9	20	2 2	
No.of DC inputs per MPPT	1/1		1/1 1/1	
Max.input current	[A] 15/1		15/15	
Max.short-circuit current	[A] 20/2	0	20/20 20/20	
Battery Side				
Battery type		Lithium Battery (with BMS)		
Battery voltage range	[V]	135-750		
Maximum charging/discharge current	[A]		25/25	
Grid Side				
Rated output power	kw] 8.0		10.0 12.0	
Max.output apparent power [l	VA] 8.8		11.01) 13.2	
	VA] 16.		16.5	
	(W] 8.0		10.0 12.0	
Rated AC voltage	1 0.0		V;230/400V;240/415V	
_	Hz] 50/6		50/60 50/60	
			16.5 ²) 20.0	
Max.output current	[A] 13.			
Power factor		0.8 leading0.8 lagging		
Max.total harmonic distortion			ed output power	
DCI	<0.59	oln <	0.5%ln <0.5%ln	
Back-up Side				
Rated output power [(W] 8.0		10.0 12.0	
Max.output apparent power [VA] 8.8		11.0 13.2	
Max.output current	[A] 13.	3	16.5 20.0	
UPS switching time	<10r	ns <	<10ms <10ms	
Rated output voltage		3L/N/PE;220/380	V;230/400V;240/415V	
Rated output frequency	Hz] 50/6	0	50/60 50/60	
Voltage harmonic distortion		<3%@	Linear load	
Efficiency	<u>'</u>			
Max.efficiency	98.2	%	98.2% 98.2%	
European efficiency	97.4		97.4%	
Protection				
DC reverse polarity protection		Int	egrated	
Battery input reverse connection protect	ion	Integrated		
Insulation resistance protection		Integrated		
'			-	
Surge protection			egrated	
Over-temperature protection			egrated	
Residual current protection			egrated	
Islanding protection			egrated	
AC over-voltage protection			egrated	
Overload protection		Integrated		
AC short-circuit protection		Inte	egrated	
General Data				
Over voltage category		PV:I	I Main:III	
Dimensions [W×H×D	nm]	534×	418×210	
	(G]		26.0	
Protection degree			IP65	
Standby self-consumption	[W]		<15	
Topology		Trans	formerless	
Operating Temperature Range	[°C]	-30~60		
Relative Humidity	[%]	0~100		
Operating Altitude				
<u> </u>	[m]	3000 (>3000m derating)		
Cooling	dB]	Natural Convection		
	ari I	<25		
	аы			
Display Communication	ubj		D & LED ViFi/LAN (Optional)	