Open Energy For All





Three-phase AC-coupled Inverter Datasheet

HAT-5.0HV-EUG1 HAT-6.0HV-EUG1 HAT-8.0HV-EUG1 HAT-10.0HV-EUG1

Description

The HAT-HV-EUG1 Series is designed for retrofitting PV systems, including power classes ranging from 5.0 kW to 10.0 kW. It can be installed with existing PV inverters, forming an AC coupling system.

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The intelligent EMS function supports self-consumption mode, economical mode, and backup mode for multi-scenario applications.

Moreover, the remote monitoring management through S-Miles Cloud allows users to track the full status of the system operation over time, maximizing power and energy utilization.

Features

01	Intelligent export limitation and 100% three-phase imbalanced output	04	Ultralight for easy installation and space-saving
02	Compatible with multiple batteries, providing users with more choices	05	Built-in dry contact flexibly set to earth fault alarm, load control, or generator control
03	UPS level switching time <10 ms	06	Max. 10 parallel inverters

Technical Specifications

Model	HAT-5.0HV-EUG1	HAT-6.0HV-EUG1	HAT-8.0HV-EUG1	HAT-10.0HV-EUG1			
Battery							
Battery type	Li-ion						
Battery voltage range (V)		170-	600				
Max. charge/discharge current (A)	20/20	20/20	30/30	30/30			
Max. charge/discharge power (W)	5000/5000	6000/6000	8000/8000	10000/10000			
Charging strategy for Li-ion battery							
Communication	CAN						
AC Input and Output (On-grid)							
Rated output power (W)	5000	6000	8000	10000			
Max. output apparent power (VA)	5500	6600	8800	11000 ⁽¹⁾			
Max. input power (W)	10000	12000	16000	16000			
Grid form	3L/N/PE						
Rated AC output voltage/Range (V)	380/400, 266-480						
Rated grid frequency (Hz)		50/60					
Max. output current (A)	8.3	10.0	13.3	16.7			
Max. input current (A)	15.2	18.2	24.2	24.2			
Power factor	>0.99 (0.8 leading 0.8 lagging)						
THDi (@rated output)	<3%						
AC Output (Off-grid)							
Rated output power (W)	5000	6000	8000	10000			
Max. output apparent power (VA)	10000, 10s	12000, 10s	16000, 10s	16000, 10s			
Back-up switch time (ms)		<					
Grid form	3L/N/PE						
Rated output voltage (V)	380/400						
Rated output frequency (Hz)	50/400						
Max. continuous output current (A)	8.3	10.0	13.3	16.7			
THDv (@linear load)	<3%						
Efficiency							
Max. efficiency	97.5%	97.5%	97.5%	97.5%			
Protection							
Anti-islanding protection	Integrated						
AC over current protection	Integrated						
AC short current protection	Integrated						
AC overvoltage and undervoltage protection	Integrated						
Surge protection		Integrated DC Type II/AC Type III					
General							
Dimensions (W × H × D [mm])		502 × 40	16 x 202				
Weight (kg)	502 × 486 × 202 23						
Mounting	2.3 Wall mounting						
Operating temperature (°C)							
	-25 to +65 (>45, derating)						
Relative humidity	0-95%, no condensing						
Cooling	Natural convection						
Topology (Battery)		Transformerless					
Altitude (m)	≤2000						
Protection degree		IP65					
Noise (dB)		<40					
User interface	LED, App						
Digital input/output	DRM, 1 × DI, 2 × DO						
Communication		RS485, optional: W	'i-Fi/Ethernet/4G ⁽²⁾				
Certifications and Standards							
Grid connection standard	EN 50549, VDE-AR-N 4105, VFR: 2019, TOR Erzeuger Type A						
Safety/EMC standard	IEC 62109-1/-2, IEC 62477-1, EN 61000-6-1/-3						

Max. output apparent power 10000 VA for Belgium.
The DTS-Ethernet and DTS-4G solutions will be coming soon.