





Three-phase Hybrid Inverter Datasheet

HIT-5L-G3
HIT-6L-G3
HIT-8L-G3
HIT-10L-G3
HIT-12L-G3
HIT-15L-G3
HIT-17L-G3
LIT 201 C2

Description

The HIT-(5-20)L-G3 series is a high-performance three-phase hybrid inverter with excellent reliability, including power classes ranging from 5 kW to 20 kW.

The intelligent EMS function supports self-consumption mode, economical mode, backup mode, peak shaving mode, and time of use mode for multi-scenario applications.

Monitoring management through S-Miles Cloud allows users to remotely diagnose and track the individual system performance over time, offering superior energy production.

Features

01	4 MPPTs with 16 A input; DC/AC oversizing up to 200%
02	100% unbalanced output; max. output of each phase u to 50% rated power
03	Support multiple intelligent working modes including Peak Shaving and 8×24h Time of Use

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04	

Integrated AI energy management with generator, heat pump and smart load

05 Max. 10 inverters in parallel for on-grid and off-grid system extension

06 Ultralight for easy installation and space-saving; unique built-in meter solution with up to 50 A bypass

Technical Specifications

Model	HIT-5L-G3	HIT-6L-G3	HIT-8L-G3	HIT-10L-G3	HIT-12L-G3	HIT-15L-G3	HIT-17L-G3	HIT-20L-G3
Battery								
Battery type Li-ion/l ead-acid								
Battery voltage range (V)	40-60							
Max. charge/discharge current (A)	120/120	150/150	190/190	210/210	250/250	300/300	350/350	350/350
Charging strategy for Li-ion battery				Self-adapti	ion to BMS			
Charging curve	3 Stages/Equalization							
External temperature sensor		Ontional						
Communication				CA	AN			
PV Input								
Recommended max. PV power (W)	10000	12000	16000	20000	24000	30000	34000	40000
Max, input voltage (V)				10	00			
Rated voltage (V)				7	20			
Start-up voltage (V)				1	50			
MPPT voltage range (V)				150	-900			
Max input current (A)	16/16	16/16	16/16/16	16/16/16/16	16/16/16/16	16/16/16/16	16/16/16/16	16/16/16/16
Max short circuit current (A)	20/20	20/20	20/20/20	20/20/20/20	20/20/20/20	20/20/20/20	20/20/20/20	20/20/20/20
MPPT number/Max_input strings number	2/2	2/2	3/3	4/4	4/4	4/4	4/4	4/4
AC Input and Output (On-grid)	2/2	272	0,0					
Rated output power (W)	5000	6000	8000	10000	12000	15000	17000	20000
Max output apparent power (VA)	5500	6600	8800	11000	13200	16500	18700	22000
Grid form	5500	0000	0000	31/1	I/PE	10500	10700	22000
Rated AC output voltage/Range (V)				380/400	266-480			
Rated AC output voltage/Kange (v)				50,400,	/60			
Max output current (A)	0 0	10	12.2	16 7	20	25	202	22.2
Rower factor	0.5	10	15.5	>0.00 (0.8 loadir		25	20.5	55.5
THDi (@rated output)				-0.99 (0.8 leauli				
				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	5%0			
Retod output power (M)	5000	6000	8000	10000	12000	15000	17000	20000
Max output apparent power (VA)	10000 10c	12000 100	16000 100	20000 10c	24000 10c	20000 10c	24000 100	20000
Rack up quitch time (mc)	10000, 105	12000, 105	10000, 105	20000, 105	24000, 105	30000, 105	34000, 105	40000, 105
Crid form				21.0				
Bated output voltage 0.0				5L/I 200	N/PE			
Rated output voltage (v)				500	400			
Max, continuous output surrent (A)	7.6	0.1	12.2	15.2	100	22.0	25.0	20.4
Max. continuous output current (A)	7.0	9.1	12.2	15.2	10.2	22.0	23.0	50.4
Max. continuous AC bypass current (A)				0	0			
THDV (@IINear IOad)					5%0			
MDDT officiency					004			
Max officianay		0.9	204	99.	9%	00	E 04	
Max. efficiency	98.2% 98.5%							
EU efficiency		97.	.0%0	05	70/	90.	.0%	
Max. ballery discharge to AC efficiency				95.	/%			
Protection				Tataa	vatad			
Anti-Islanding protection				Integ	rated			
PV string input reverse polarity protection				Integ	rated			
Insulation resistor detection				Integ	rated			
Residual current monitoring unit				Integ	rated			
AC overcurrent protection				Integ	rated			
AC short current protection				Integ	rated			
AC overvoltage and undervoltage protection				Integ	rated			
AFCI				Opti	onal			
Surge protection				DC Type II.	/AC Type II			
General								
Dimensions (W × H × D [mm]) ⁽⁴⁾				552 × 69	92 × 222			
Weight (kg)				3	/			
Mounting				Wall mo	ounting			
Operating temperature (°C)				-25 to +65 (>	45, derating)			
Relative humidity				0-95%, no o	condensing			
Cooling		Natural c	onvection			Smai	rt fan	
lopology (Solar/Battery)			Trar	nstormerless/Hig	n-trequency isola	ition		
Altitude (m)				≤4000 (>200	JU, derating)			
Protection degree				IP	66			
Noise (dB)		<	35			<4	45	
User interface	LED, App							
Digital input/output				DRM, 4 ×	DI, 4 × DO			
Communication				RS485, optional: \	Ni-Fi/4G/Etherne	t		
Certifications and Standards								
Grid connection standard IEC 61727, IEC 62116, EN 50549, VDE-AR-N 4105								
Safety/EMC standard IEC 62109-1/-2, EN 61000-6-1/-2/-3/-4								
<ol><li>Can be achieved only if PV and battery power</li></ol>	er are sufficient							

(2) Excluding Connectors and Brackets.