



Single-phase Output Off-grid Inverter

- 32-bit DSP Controllers
- The fifth generation Mitsubishi IPM modules
- Inversion efficiency, up to 94% (DC220V Series)
- Multilingual LCD display
- Standard RS485/232 communication interfaces
- Perfect Protection
- Failure logging
- Low-voltage protection





Voltage: 24 / 48

Technical Specification		HS-S241K	HS-S481K	HS-S482K	HS-S483K	HS-S485K	HS-S487.5K
DC Input	Rated DC input voltage (VDC)	24	48				
	Rated input current (A)	50	24	48	73	116	172
	DC input voltage range (VDC)	21 ~ 32	42 ~ 64				
AC Output	Rated capacity (KVA)	1.0	1.0	2.0	3.0	5.0	7.5
	Rated output power (kW)	0.8	0.8	1.6	2.4	4.0	6.0
	Rated output voltage & frequency	220VAC, ±50Hz					
	Rated output current (A)	4.5	4.5	9.0	13.6	22.7	34.1
	Output voltage accuracy (V)	220VAC±3%					
	Output frequency accuracy (HZ)	50±0.05					
	Total harmonic distortion (THD) (Linear Load)	≤5%					
	Dynamic response (Load 0↔100%)	5%					
	Power factor (PF)	0.8					
	Overload capability	150%, 10 seconds					
	Crest factor (CF)	3:1					
Inversion efficiency - 80% resistance load	84%	86%			90%	90%	
Environment	Isolation resistance (Input & Output)	1,500VAC, 1 minute					
	Noise Level at 1 meter	≤40dB	≤45dB		≤50dB		
	Operating temperature	-25°C~+55°C					
	Relative humidity	0~90%, non-condensing					
	Operating elevation (m)	≤6,000					
Size	Vertical depth, width, height (mm)	395×205×365			540×280×530		600×550 ×1200
	Rack-mount, depth, width, height (mm)	440×482×177 (4U)			442×482 ×267	492×720 ×300	
Weight (Kg)	18	18	30	42	65	100	
Protection	Input reverse polarity, under/over input voltage, output overload, output short circuit, overheat						



Voltage: 110

Technical Specification		HS-S110 3K	HS-S110 5K	HS-S110 7.5K	HS-S110 10K	HS-S110 15K	HS-S110 20K	HS-S110 30K
DC Input	Rated DC input voltage (VDC)	110						
	Rated input current (A)	30	51	76	101	152	202	303
	DC input voltage range (VDC)	99 ~ 150						
AC Output	Rated capacity (KVA)	3.0	5.0	7.5	10.0	15.0	20.0	30.0
	Rated output power (kW)	2.4	4.0	6.0	8.0	12.0	16.0	24.0
	Rated output voltage & frequency	220VAC, ±50Hz						
	Rated output current (A)	13.6	22.7	34.1	45.0	68.0	91.0	136.0
	Output voltage accuracy (V)	220VAC±3%						
	Output frequency accuracy (HZ)	50±0.05						
	Total harmonic distortion (THD) (Linear Load)	≤5%						
	Dynamic response (Load 0↔100%)	5%						
	Power factor (PF)	0.8						
	Overload capability	150%, 10 seconds						
	Crest factor (CF)	3:1						
	Inversion efficiency - 80% resistance load	90%						
Environment	Isolation resistance (Input & Output)	1,500VAC, 1 minute						
	Noise Level at 1 meter	≤50dB						
	Operating temperature	-25°C~+55°C						
	Relative humidity	0~90%, non-condensing						
	Operating elevation (m)	≤6,000						
	Vertical depth, width, height (mm)	540×280×530		470×608×800		600×550 ×1200	600×800×2260	
Weight (Kg)		35	53	75	110	130	380	420
Protection		Input reverse polarity, under/over input voltage, output overload, output short circuit, overheat						



Voltage: 220

Technical Specification		HS-S2 205K	HS-S2 207.5K	HS-S2 2010K	HS-S2 2015K	HS-S2 2020K	HS-S2 2030K	HS-S2 2050K	HS-S2 2060K	HS-S2 2080K	HS-S22 0100K
DC Input	Rated DC input voltage (VDC)	220									
	Rated input current (A)	25	37	49	74	99	147	244	293	391	489
	DC input voltage range (VDC)	198 ~ 300									
AC Out put	Rated capacity (KVA)	5.0	7.5	10.0	15.0	20.0	30.0	50.0	60.0	80.0	100.0
	Rated output power (kW)	4.0	6.0	8.0	12.0	16.0	24.0	40.0	48.0	64.0	80.0
	Rated output voltage & frequency	220VAC, ±50Hz									
	Rated output current (A)	22.7	34.1	45.5	68.2	90.9	136.4	227.3	296.4	364.0	455.0
	Output voltage accuracy (V)	220VAC±3%									
	Output frequency accuracy (HZ)	50±0.05									
	Total harmonic distortion (THD) (Linear Load)	≤5%									
	Dynamic response (Load 0↔100%)	5%									
	Power factor (PF)	0.8									
	Overload capability	150%, 10 seconds									
	Crest factor (CF)	3:1									
Envi ron ment	Isolation resistance (Input & Output)	1,500VAC, 1 minute									
	Noise Level at 1 meter	≤50dB									
	Operating temperature	-25°C~+55°C									
	Relative humidity	0~90%, non-condensing									
	Operating elevation (m)	≤6,000									
	Vertical depth, width, height (cm)	54×28 ×53	55.8× 43×64	60×55 ×98	60×55 ×120	60×80 ×226	60×80 ×180	60×80×226		80×100×226	
Weight (Kg)		50	70	102	120	300	380	510	580	950	1050
Protection		Input reverse polarity, under/over input voltage, output overload, output short circuit, overheat									