

**Information requirements
(air-to-air air conditioners)**

Model(s):AST-48BI2/I、AST-48BI2/O							
Outdoor side heat exchanger of air conditioner	air						
Indoor side heat exchanger of air conditioner	air						
Type	compressor driven vapour compression						
If applicable: driver of compressor	electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.3	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	227.0	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27°/19 °C (dry/wet bulb)				Declared energy efficiency ratio for part load at given outdoor temperatures T_j			
$T_j = +35\text{ °C}$	P_{dc}	12.30	kW	$T_j = +35\text{ °C}$	EER_d	2.86	-
$T_j = +30\text{ °C}$	P_{dc}	8.91	kW	$T_j = +30\text{ °C}$	EER_d	4.27	-
$T_j = +25\text{ °C}$	P_{dc}	5.73	kW	$T_j = +25\text{ °C}$	EER_d	6.42	-
$T_j = +20\text{ °C}$	P_{dc}	3.97	kW	$T_j = +20\text{ °C}$	EER_d	10.59	-
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	—				-
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.003	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.009	kW	Standby mode	P_{SB}	0.003	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: air flow rate, outdoor measured	—	4000	m^3/h
Sound power level, indoor/outdoor	L_{WA}	64/73	dB				
If engine driven: Emissions of nitrogen oxides	$NOx(**)$	/	mg/kWh fuel input GCV				
GWP of the refrigerant	675		kg CO ₂ eq (100 years)				
Contact details: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China, 519070				Name of manufacturer: GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI			
(*) If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0.25. (**) From 26 September 2018. Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.							

**Information requirements
(heat pump)**

Model(s):AST-48BI2/I、AST-48BI2/O							
Outdoor side heat exchanger of heat pump	air						
Indoor side heat exchanger of heat pump	air						
Indication if the heater is equipped with a supplementary heater	no						
If applicable: driver of compressor	electric motor						
Parameters declared for	Average climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heating capacity	P _{rated,h}	12.6	kW	Seasonal space heating energy efficiency	η _{s,h}	147.0	%
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance for part load at given outdoor temperatures T _j			
T _j = − 7 °C	P _{dh}	8.10	kW	T _j = − 7 °C	COP _d	2.53	-
T _j = + 2 °C	P _{dh}	4.70	kW	T _j = + 2 °C	COP _d	3.57	-
T _j = + 7 °C	P _{dh}	3.17	kW	T _j = + 7 °C	COP _d	4.93	-
T _j = + 12 °C	P _{dh}	2.90	kW	T _j = + 12 °C	COP _d	6.22	-
T _{biv} = bivalent temperature	P _{dh}	8.10	kW	T _{biv} = bivalent temperature	COP _d	2.53	-
T _{OL} = operation limit	P _{dh}	7.74	kW	T _{OL} = operation limit	COP _d	2.12	-
T _j = − 15 °C (if TOL < − 20 °C)	P _{dh}	NA	kW	T _j = − 15 °C (if TOL < − 20 °C)	COP _d	NA	-
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	T _{ol}	-10	°C
Degradation co-efficient heat pumps(**)	C _{dh}	0.25	—				
Power consumption in modes other than ‘active mode’				Supplementary heater			
Off mode	P _{OFF}	0.002	kW	Back-up heating capacity (*)	elbu	1.26	kW
Thermostat-off mode	P _{TO}	0.017	kW	Type of energy input	Electric		
Crankcase heater mode	P _{CK}	0.000	kW	Standby mode	P _{SB}	0.002	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: air flow rate, outdoor measured	—	4000	m ³ /h
Sound power level, indoor/outdoor measured	L _{WA}	64/73	dB				
Emissions of nitrogen oxides (if applicable)	NOx(***)	/	mg/kWh input GCV	Rated brine or water flow rate, outdoor side heat exchanger	—	—	m ³ /h
GWP of the refrigerant	675		kg CO ₂ eq (100 years)				
Contact details: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China, 519070				Name of manufacturer: GREE ELECTRIC APPLIANCES,INC. OF ZHUHAI			
(*) (**) If Cdh is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25. (***) From 26 September 2018. Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.							



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