

PLA-ZM SERIES

POWER INVERTER



Type					PLA-ZM35EA3		PLA-ZM50EA3		PLA-ZM60EA3		PLA-ZM71EA3		PLA-ZM100EA3		PLA-ZM100EA3		PLA-ZM125EA3		PLA-ZM125EA3		PLA-ZM140EA3		PLA-ZM140EA3	
Indoor Unit					PUZ-ZM35VKA3		PUZ-ZM50VKA3		PUZ-ZM60VHA3		PUZ-ZM71VHA3		PUZ-ZM100VDA2		PUZ-ZM100VDA2		PUZ-ZM125VDA2		PUZ-ZM125VDA2		PUZ-ZM140VDA2		PUZ-ZM140VDA2	
Refrigerant ^{*1)}																								
Power Supply	Source																							
Outdoor (V/Phase/Hz)																								
Cooling	Capacity	Rated	kW		3.6		5.0		6.1		7.1		9.5		9.5		12.5		12.5		13.4		13.4	
	Min-Max	Rated	kW		1.6 - 4.5		2.3 - 5.6		2.7 - 6.5		3.3 - 8.1		4.9 - 11.4		4.9 - 11.4		5.1 - 14.0		5.1 - 14.0		5.4 - 15.0		5.4 - 15.0	
	Total Input	Rated	kW		0.706		1.107		1.453		1.652		2.160		2.160		3.473		3.473		3.622		3.622	
	EER	Rated			5.10		4.52		4.20		4.30		4.40		4.40		3.60		3.60		3.70		3.70	
	Design load		kW		3.6		5.0		6.1		7.1		9.5		9.5		12.5		12.5		13.4		13.4	
	Annual electricity consumption ^{*2)}		kWh/a		168		230		296		327		426		426		1003		1010		1087		1094	
	SEER ^{*4)}				7.5		7.6		7.2		7.6		7.8		7.8		7.48		7.43		7.39		7.35	
	Energy efficiency class				A++		A++		A++		A++		A++		A++		A++		A++		A++		A++	
	ηsc		%		-		-		-		-		-		-		296.2%		294.1%		292.8%		290.9%	
	Heating	Capacity	Rated	kW		4.1		6.0		7.0		8.0		11.2		11.2		14.0		14.0		16.0		16.0
Min-Max		Rated	kW		1.6 - 5.2		2.5 - 7.3		2.8 - 8.2		3.5 - 10.2		2.7 - 14.0		2.7 - 14.0		3.2 - 16.0		3.2 - 16.0		3.7 - 18.0		3.7 - 18.0	
Total Input		Rated	kW		0.820		1.364		1.708		1.819		2.667		2.667		3.889		3.889		4.572		4.572	
COP		Rated			5.00		4.40		4.10		4.40		4.20		4.20		3.60		3.60		3.50		3.50	
Design load			kW		2.7		3.8		4.4		5.3		7.8		7.8		9.3		9.3		10.6		10.6	
Declared Capacity		at reference design temperature	kW		2.7 (-10°C)		3.8 (-10°C)		4.4 (-10°C)		5.3 (-10°C)		7.8 (-10°C)		7.8 (-10°C)		9.3 (-10°C)		9.3 (-10°C)		10.6 (-10°C)		10.6 (-10°C)	
		at bivalent temperature	kW		2.7 (-10°C)		3.8 (-10°C)		4.4 (-10°C)		5.3 (-10°C)		7.8 (-10°C)		7.8 (-10°C)		9.3 (-10°C)		9.3 (-10°C)		10.6 (-10°C)		10.6 (-10°C)	
		at operation limit temperature	kW		2.1 (-11°C)		3.7 (-11°C)		2.8 (-20°C)		3.4 (-20°C)		5.8 (-20°C)		5.8 (-20°C)		7.0 (-20°C)		7.0 (-20°C)		7.9 (-20°C)		7.9 (-20°C)	
Back up heating capacity			kW		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
Annual electricity consumption ^{*2)}			kWh/a		804		1086		1339		1544		2273		2274		2752		2753		3203		3204	
SCOP ^{*4)}					4.7		4.9		4.6		4.8		4.8		4.8		4.73		4.73		4.63		4.63	
Energy efficiency class				A++		A++		A++		A++		A++		A++		A++		A++		A++		A++		
ηsh		%		-		-		-		-		-		-		186.2%		186.2%		182.3%		182.3%		
Operating Unit	Current (Max)		A		13.2		13.2		19.2		19.3		27.0		8.5		27.0		8.5		30.7		9.7	
	Input (Cooling/Heating)	Rated	kW		0.03 / 0.03		0.03 / 0.03		0.03 / 0.03		0.06 / 0.06		0.07 / 0.07		0.07 / 0.07		0.08 / 0.08		0.08 / 0.08		0.10 / 0.10		0.10 / 0.10	
	Operating Current (Max)		A		0.21		0.22		0.22		0.34		0.47		0.47		0.52		0.52		0.66		0.66	
	Dimensions	H*W*D	mm		258 - 840 - 840		258 - 840 - 840		258 - 840 - 840		298 - 840 - 840		298 - 840 - 840		298 - 840 - 840		298 - 840 - 840		298 - 840 - 840		298 - 840 - 840		298 - 840 - 840	
	Weight		kg		21		21		21		24		26		26		26		26		26		26	
	Air Volume (Lo-Mi2-Mi1-Hi)		m³/min		11 - 13 - 15 - 16		12 - 14 - 16 - 18		12 - 14 - 16 - 18		17 - 19 - 21 - 23		19 - 22 - 25 - 28		19 - 22 - 25 - 28		21 - 24 - 26 - 29		21 - 24 - 26 - 29		24 - 26 - 29 - 32		24 - 26 - 29 - 32	
	Sound Level (Lo-Mi2-Mi1-Hi) (SPL)		dB(A)		26 - 28 - 29 - 31		27 - 29 - 31 - 32		27 - 29 - 31 - 32		28 - 30 - 33 - 36		31 - 34 - 37 - 40		31 - 34 - 37 - 40		33 - 36 - 39 - 41		33 - 36 - 39 - 41		36 - 39 - 42 - 44		36 - 39 - 42 - 44	
	Sound Level (PWL)		dB(A)		51		54		54		57		61		61		62		65		65		68	
	Dimensions	H*W*D	mm		630 - 809 - 320		630 - 809 - 320		943 - 950 - 355		943 - 950 - 355		870 - 1100 - 505		870 - 1100 - 505		870 - 1100 - 505		870 - 1100 - 505		870 - 1100 - 505		870 - 1100 - 505	
	Weight		kg		46		46		67		67		108		114		108		116		108		121	
Outdoor Unit	Air Volume	Cooling	m³/min		40		40		55		55		80		80		84		84		97		97	
	Heating	m³/min		40		34		55		55		77		77		77		77		80		80		
	Sound Level (SPL)	Cooling	dB(A)		44		44		47		47		44		44		47		47		49		49	
	Heating	dB(A)		46		46		49		49		48		48		50		50		51		51		
	Sound Level (PWL)	Cooling	dB(A)		65		65		67		67		63		63		66		66		68		68	
	Heating	dB(A)		65		65		67		67		63		63		66		66		68		68		
	Operating Current (Max)		A		13.0		13.0		19.0		19.0		26.5		8.0		26.5		9.0		30.0		9.0	
	Breaker Size		A		16		16		25		25		32		16		32		16		40		16	
Ext. Piping	Diameter ^{*3)}	Liquid/Gas	mm		6.35 / 12.7		6.35 / 12.7		9.52 / 15.88		9.52 / 15.88		9.52 / 15.88		9.52 / 15.88		9.52 / 15.88		9.52 / 15.88		9.52 / 15.88		9.52 / 15.88	
	Length	Out-In	m		50		50		55		55		100		100		100		100		100		100	
	Max Weight	Out-In	m		30		30		30		30		30		30		30		30		30		30	
Guaranteed Operating Range (Outdoor)	Cooling ^{*5)}		°C		-15 ~ -46		-15 ~ -46		-15 ~ -46		-15 ~ -46		-20 ~ -46		-20 ~ -46		-20 ~ -46		-20 ~ -46		-20 ~ -46		-20 ~ -46	
	Heating		°C		-11 ~ -21		-11 ~ -21		-20 ~ -21		-20 ~ -21		-20 ~ -21		-20 ~ -21		-20 ~ -21		-20 ~ -21		-20 ~ -21		-20 ~ -21	