

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)}					R32													
Power Supply	Source				Outdoor power supply													
Cooling	Outdoor (V/Phase/Hz)		230/Single/50				400/Three/50				230/Single/50		400/Three/50		230/Single/50		400/Three/50	
	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	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				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	1003	1087	1087				
	SEER ^{*4)}				7.5	7.6	7.2	7.6	7.8	7.8	7.48	7.48	7.39	7.35				
		Energy efficiency class				A++	A++	A++	A++	A++	A++	A++	A++	A++				
		ηsc	%					—				296.2%		294.1%		292.8%		290.3%
Heating	Capacity	Rated	kW		4.1 <td>6.0</td> <td>7.0</td> <td>8.0</td> <td>11.2</td> <td>11.2</td> <td>14.0</td> <td>14.0</td> <td>16.0</td> <td>16.0</td>	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0				
		Min-Max	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				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	2273	2752	2752	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++				
	ηsh	%					—				186.2%		186.2%		182.3%		182.3%	
Operating Unit	Current (Max)		A		13.2	13.2	19.2	19.3	27.0	27.0	30.7	30.7	30.7	30.7				
	Input (Cooling/Heating)		kW		0.03 / 0.03	0.03 / 0.03	0.03 / 0.03	0.05 / 0.05	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		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	62	65	65				
	Dimensions		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		m³/min		40	40	55	55	80	84	84	84	97	97				
	Sound Level (SPL)		dB(A)		44	44	47	47	44	44	47	47	49	49				
	Sound Level (PWL)		dB(A)		46	46	49	49	48	48	50	50	51	51				
	Sound Level (PWL)		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	26.5	30.0	30.0	30.0	30.0				
	Breaker Size		A		16	16	25	25	32	32	40	40	40	40				
	Ext. Piping	Diameter ^{*3)}		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			
		Max.Length		m		50	50	55	55	100	100	100	100	100	100			
		Max.Height		m		30	30	30	30	30	30	30	30	30	30			
	Guaranteed Operating Range (Outdoor)		Cooling ^{*3)}		°C		-15 ~ -46	-15 ~ -46	-15 ~ -46	-15 ~ -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				