

2. Product Information

2.1 Designation Rules

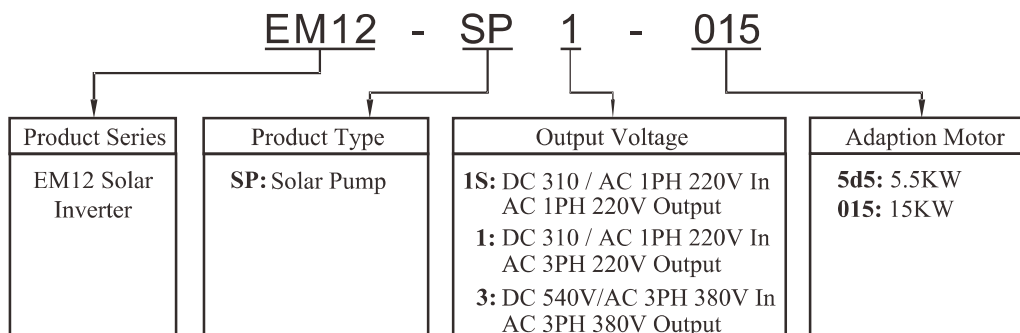


Diagram 2-1 Designation rules

2.2 EM12-SP series

Table 2-1EM12-SP Models and technical datas

EM12-SP1 Description	d75	1d5	2d2	004	5d5	7d5	011	015	018	022	030	037	045
DC input (+, -)													
Rated power/KW	0.75	1.5	2.2	4	5.5	7.5	11	15	18.5	22	30	37	45
Min. DC voltage/V	120												
Max.DC voltage/V	400												
Recommended MPPT range /V	250~400												
AC output(U, V, W)													
Output current/A	3.8	5.1	9	13	25	32	45	60	75	91	112	150	176
EM12-SP3 Description	d75	1d5	2d2	004	5d5	7d5	011	015	018	022	030	037	045
	055	075	090	110	132	160	200	220	250	280	315	355	400
DC input (+, -)													
Rated power/KW	0.75	1.5	2.2	4	5.5	7.5	11	15	18.5	22	30	37	45
	55	75	90	110	132	160	200	220	250	280	315	355	400
Min. DC voltage/V	280												
Max.DC voltage/V	750												
Recommended MPPT range /V	350~750												
AC output(U, V, W)													
Output current	2.1	3.8	5.1	9	13	17	25	32	37	45	60	75	91
	112	150	176	210	253	304	377	426	465	520	585	650	725
Output frequency	0~50/60Hz												
Power factor	>0.99												
Communication mode	RS485 communication												
Protection class	IP20												
Ambient temperature	-10°C~ +40°C(ambient temperature at 40°C~50°C, please keep derated use)												
Storage temperature	-20°C~ +60°C												
Humidity	Smaller than 95%RH, non-condensation												
Cooling	Forced Air cooling												
Altitude	Lower than 1000 m												
Humidity	Less than 95%RH, without condensing												

Vibration	Less than 5.9 m/s ² (0.6 g)
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2.3 Product appearance and installation dimension

2.3.1 Product appearance

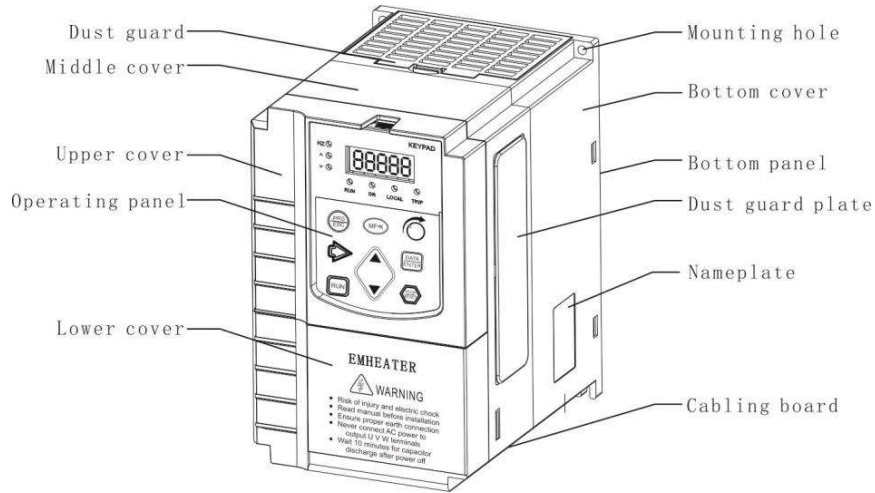


Diagram 2-2 Product appearance (With potentiometer)

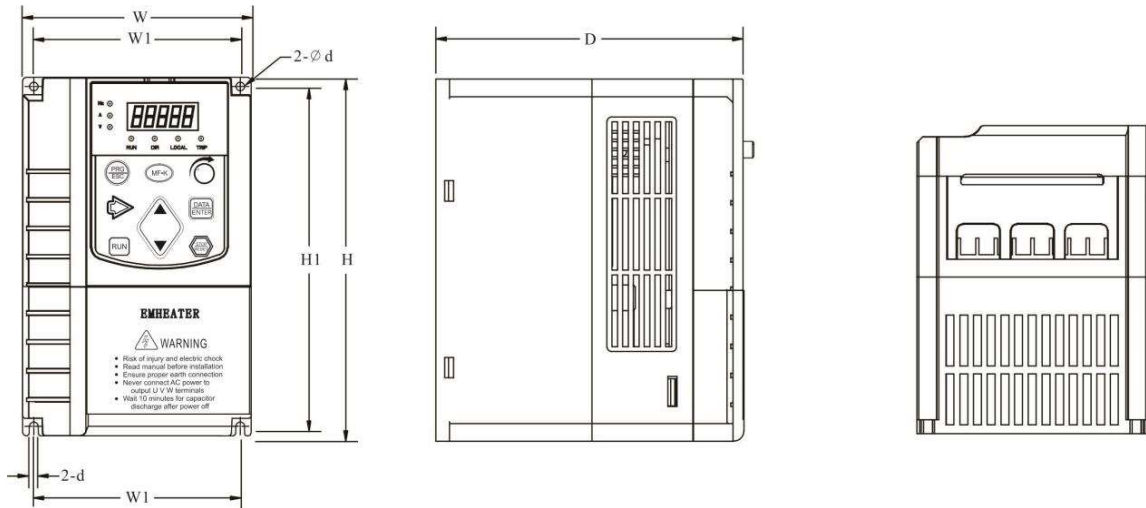


Diagram 2-3 Appearance and installation dimension of EM12 series (Plastic housing structure)

2.3.2 EM12-SP solar inverter appearance and installing dimension(mm)

Table 2-3 EM12-SP Appearance and installing dimension

Model		Appearance and installing dimension (mm)						
220V	380V	W	W1	H	H1	D	D1	Φd
EM12-SP1-d75	EM12-SP3-d75	118	106.5	185	175.5	157	--	Φ4.5
	EM12-SP3-1d5							
EM12-SP1-1d5	EM12-SP3-2d2							
	EM12-SP3-004							
EM12-SP1-2d2	EM12-SP3-5d5	160	148	247	235	177	--	Φ5.5
EM12-SP1-004	EM12-SP3-7d5							
EM12-SP1-5d5	EM12-SP3-011							
EM12-SP1-7d5	EM12-SP3-015	220	205	320	305	198	--	Φ5.5

Model		Appearance and installing dimension (mm)						
220V	380V	W	W1	H	H1	D	D1	Φd
	EM12-SP3-018							
EM12-SP1-011	EM12-SP3-022							
EM12-SP1-015	EM12-SP3-030	300	220	540	500	240	--	Φ7
EM12-SP1-018	EM12-SP3-037							
EM12-SP1-022	EM12-SP3-045	340	260	580	540	270	--	Φ10
	EM12-SP3-055							
	EM12-SP3-075	410	260	610	575	280	--	Φ12
	EM12-SP3-090							
	EM12-SP3-110	460	320	710	690	335	--	Φ12
	EM12-SP3-132							
	EM12-SP3-160	535	360	885	830	370	--	Φ12
	EM12-SP3-200							
	EM12-SP3-220							
	EM12-SP3-250	650	360	1040	985	415	--	Φ12
	EM12-SP3-280							
	EM12-SP3-315							
	EM12-SP3-355	815	600	1350	1250	445	--	Φ12
	EM12-SP3-400							

2.3.3 Appearance and installation dimension of external keypad (keypad tray)

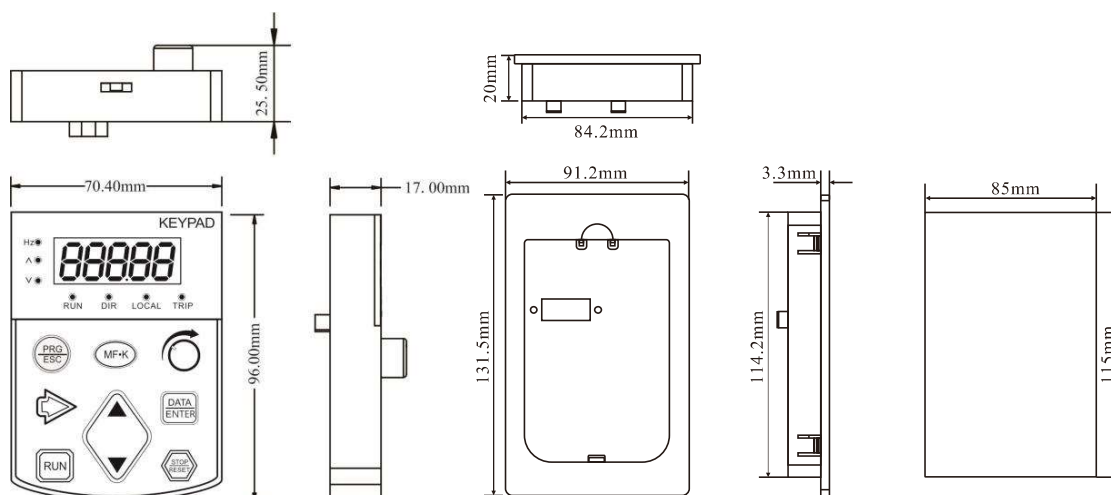


Diagram 2-4 Appearance and installation dimension of external keypad (keypad tray)