

## 2. Product Information

### 2.1 Designation Rules

EM15 - SP 3 - 7d5  
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①	EM15 Series Frequency Inverter
②	Products Type: PV use
③	Voltage range: 1: DC 250~400V to Three phase AC 220V 3: DC 350~750V to Three phase AC 380V
④	Adaptable motor: 7d5: 7.5KW ;011: 11KW

Diagram 2-1 Designation rules

### 2.2 Model and Technical Data

Table 2-1EM15-SP Model and technical data

EM15-SP1	d75	1d5	2d2	004	5d5	7d5	011	015	018	022	030	037	045
<b>Description</b>													
<b>DC input (+, -)</b>													
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												
<b>AC output(U, V, W)</b>													
Output current/A	3.8	5.1	9	13	25	32	45	60	75	91	112	150	176
<b>EM15-SP3</b>	d75	1d5	2d2	004	5d5	7d5	011	015	018	022	030	037	045
<b>Description</b>	055	075	090	110	132	160	200	220	250	280	315	355	400
<b>DC input (+, -)</b>													
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												
<b>AC output(U, V, W)</b>													
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℃~ +40℃(ambient temperature at 40℃~50℃, please keep derated use)												
Storage temperature	-20℃~ +60℃												
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 <sup>2</sup> (0.6 g)												

### 2.3 Product Appearance and Installation Dimension

#### 2.3.1 Product Appearance

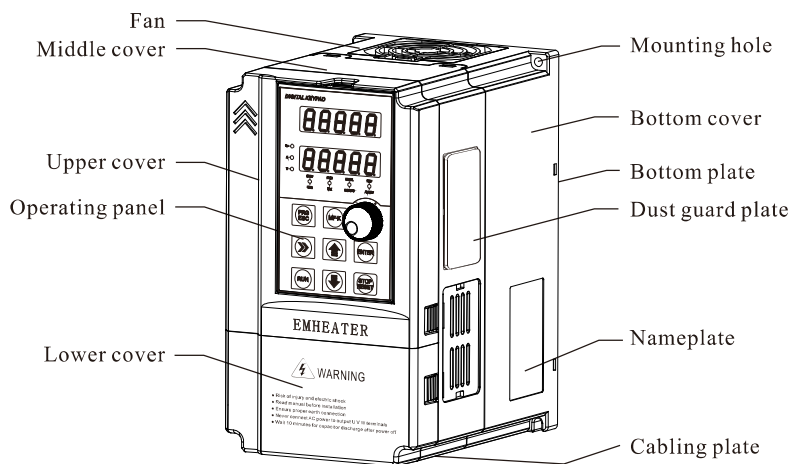


Diagram 2-2 Product appearance (With potentiometer)

#### 2.3.2 Appearance and Installing Dimension

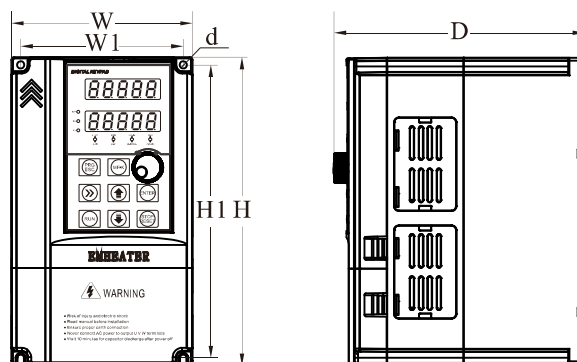


Diagram 2-3 Appearance and installing dimension of EM15 series (Plastic housing structure)

Matching inverter		Appearance and installing dimension (Unit: mm)					
Voltege	Power Range	W	W1	H	H1	D	d
1PH 220V	0.75~2.2kW	120	108	205	195	166	Φ4.5
3PH 220V	0.75~2.2kW						
3PH 380V	4~5.5kW						
3PH 220V	4~5.5kW	162	148	250	238	191	Φ5.5
3PH 380V	7.5~11kW						
3PH 220V	7.5~11kW	223	207	323	307	207	Φ5.5
3PH 380V	15~22kW						

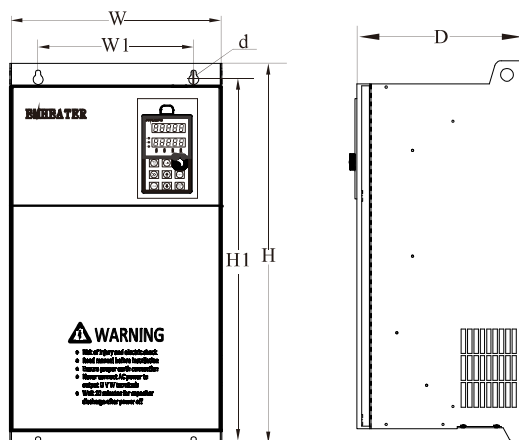


Diagram 2-4 Appearance and installation dimension of EM15 series (Metal housing structure)

Matching inverter		Appearance and installing dimension (Unit: mm)					
Voltege	Power Range	W	W1	H	H1	D	d
3PH 220V	15~18.5kW	300	220	540	500	240	Φ7
3PH 380V	30~37kW						
3PH 220V	22kW	340	260	580	540	270	Φ10
3PH 380V	45~55kW						
3PH 220V	37~45KW	410	260	610	575	280	Φ12
3PH 380V	75~90kW						
3PH 380V	110~132kW	460	320	710	690	335	Φ12
3PH 380V	160~220kW	535	360	885	830	370	Φ12
3PH 380V	250~315kW	650	360	1040	985	415	Φ12
3PH 380V	355~400kW	815	600	1350	1250	445	Φ12

### 2.3.3 Installation Dimension of External Keypad (Keypad Tray)

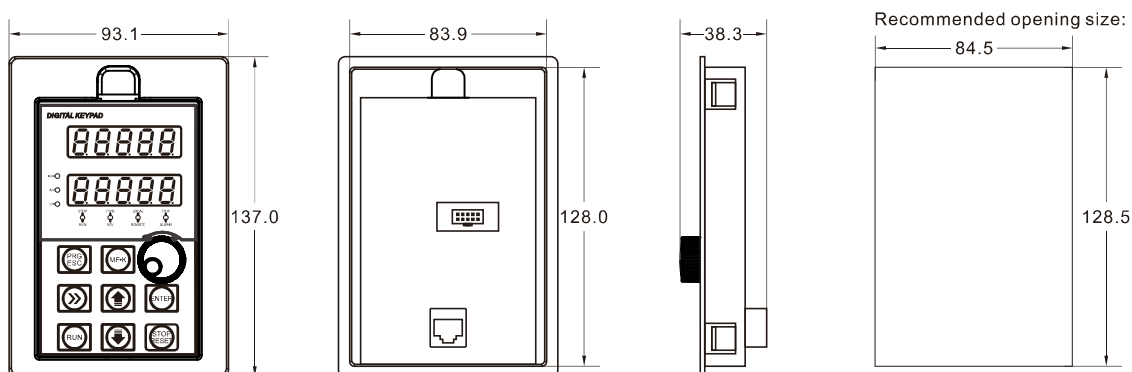


Diagram 2-5 Appearance and installation dimension of external keypad (keypad tray)