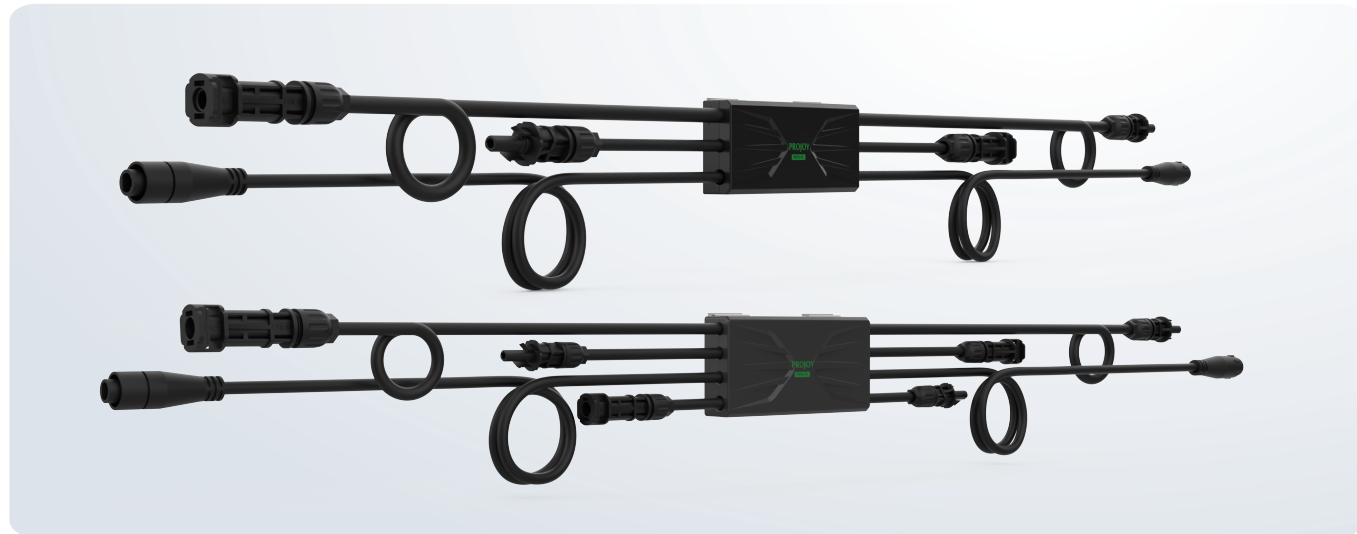


PEFS Series

Rapid Shutdown (DC24V)



High Craftsmanship and Standards



Over temperature
protection $\geq 85^{\circ}\text{C}$



Max 20A support



Flame retardant:
UL94-V0



Ingress protection:
> IP68 / NEMA 4X



Anti-interference
with high reliability
and stability



long lifespan
for 25 years



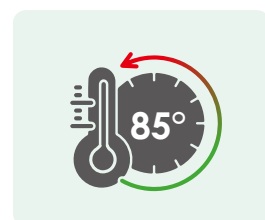
Compatible with all
inverters, Slim EMC
Design, Easy Installation



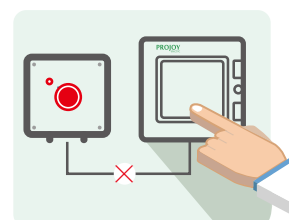
Compatible with
diad and triad pv
modules

Tripping Ways

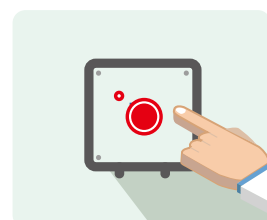
Temperature Rise Trigger



AC Supply Cut-Off



Manual Operation



Technical data

Type	PEFS-PL80S-11	PEFS-PL80S-21	PEFS-PL120S-11	PEFS-PL120S-21
Number of PV Inputs	1	2	1	2
Number of Modules Recommend	1	2	2	4
Maximum Allowed Input Voltage	80V	80V	120V	120V
Maximum Allowed Input Current	20A			
Maximum Output Voltage	80V	160V	120V	240V
System Voltage	1000V / 1500V			
Control Compliance	24VDC + 2 x 0.8mm ² Cable			
Control Requirements	17 V~28 V at nomi. 20 mA/unit			
Ambient Operating Temperature	-30° C to +80° C			
Protection Temperature	85° C			
IP Level	>IP68, NEMA 4X			
Fire-proof Level	Flame retardant, UL94-V0			
Humidity	0%~90%			
PV Connectors	MC4 (Customized)			
Design Life Span	25 years			
Size	120*51.9*22.4mm	120*59*22.4mm	120*51.9*22.4mm	120*59*22.4mm
Weight	< 200g (Excluding Cables)			

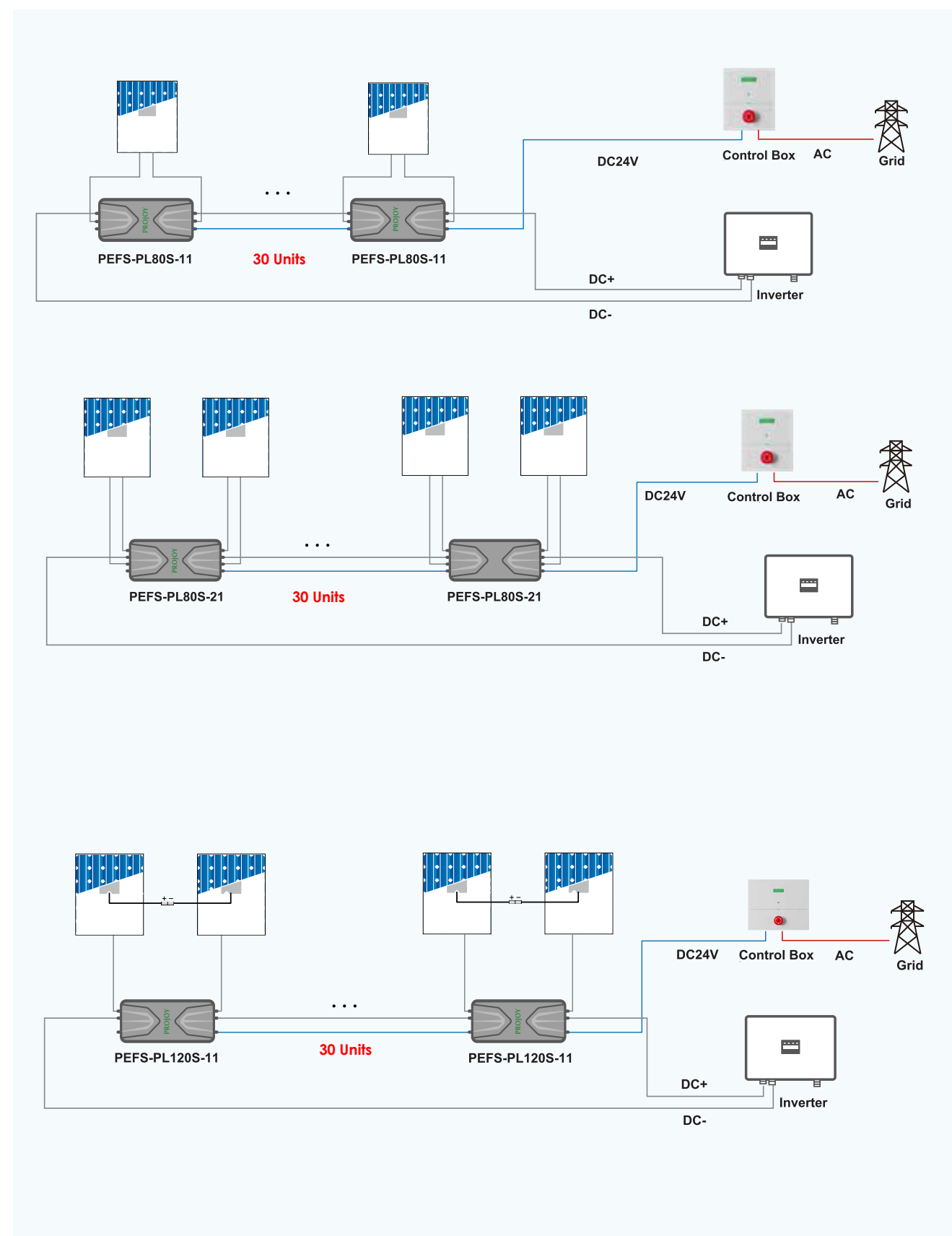
Cable Length	Option I			
PV1+ Input	120mm	600 mm	120 mm	600mm
PV1- Input	120mm	600 mm	120 mm	600mm
PV2+ Input	/	600 mm	/	600mm
PV2- Input	/	600 mm	/	600mm
Power Output	1200mm+1200mm	1200mm+1200mm	2400mm+2400mm	2400mm+2400mm
24Vdc Control Cable	1200mm+1200mm	1200mm+1200mm	2400mm+2400mm	2400mm+2400mm
Standard Compliance	NEC2017/2020 (690.12); UL1741; UL3741; IEC/EN62109; IEC/EN61000			

Cable Length	Option II			
PV1+ Input	120mm	600mm	1200mm	1500mm
PV1- Input	1200mm	1200mm	1200mm	2400mm
PV2+ Input	/	1200mm	/	2400mm
PV2- Input	/	600mm	/	1500mm
Power Output	1250mm+1250mm	1250mm+1250mm	1250mm+1250mm	2450mm+2450mm
24Vdc Control Cable	1250mm+1250mm	1250mm+1250mm	1250mm+1250mm	2450mm+2450mm
Standard Compliance	NEC2017/2020 (690.12); UL1741; UL3741; IEC/EN62109; IEC/EN61000			

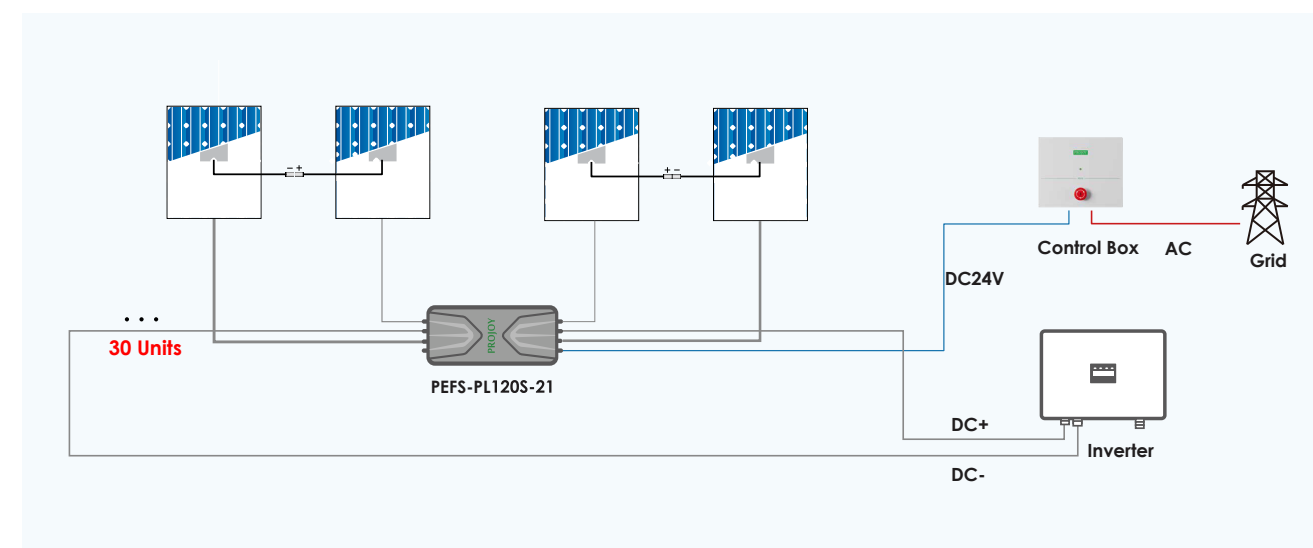
*Suitable for vertical photovoltaic modules

*If the length of cable is not enough, extension cables of 0.6m,1.2m,1.8m and 2.4m can be used.

PEFS-PL Series



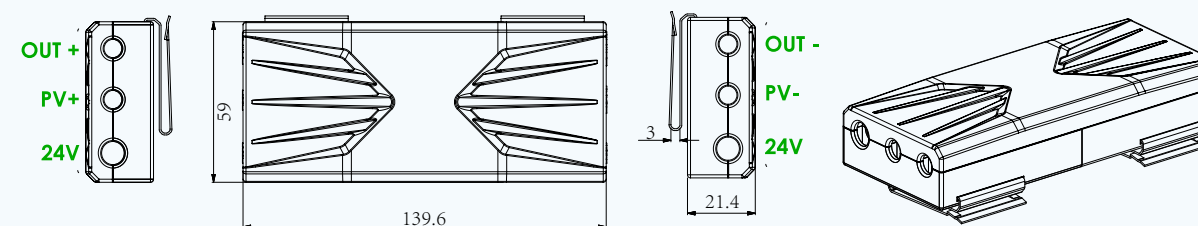
PEFS-PL Series



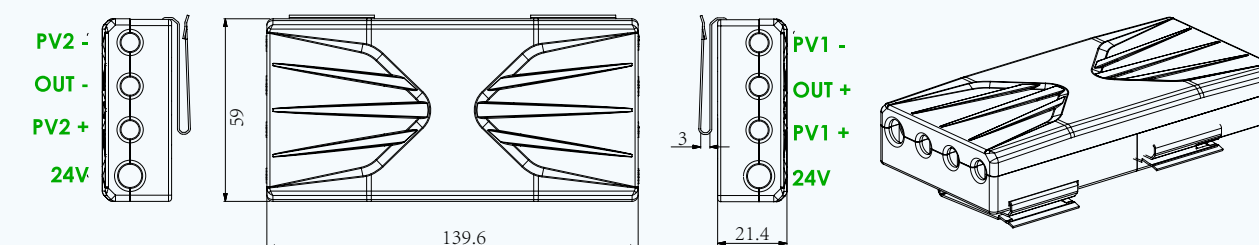
Dimension

PEFS-PL80S-11
PEFS-PL120S-11

(Unit: ± 0.5 mm)

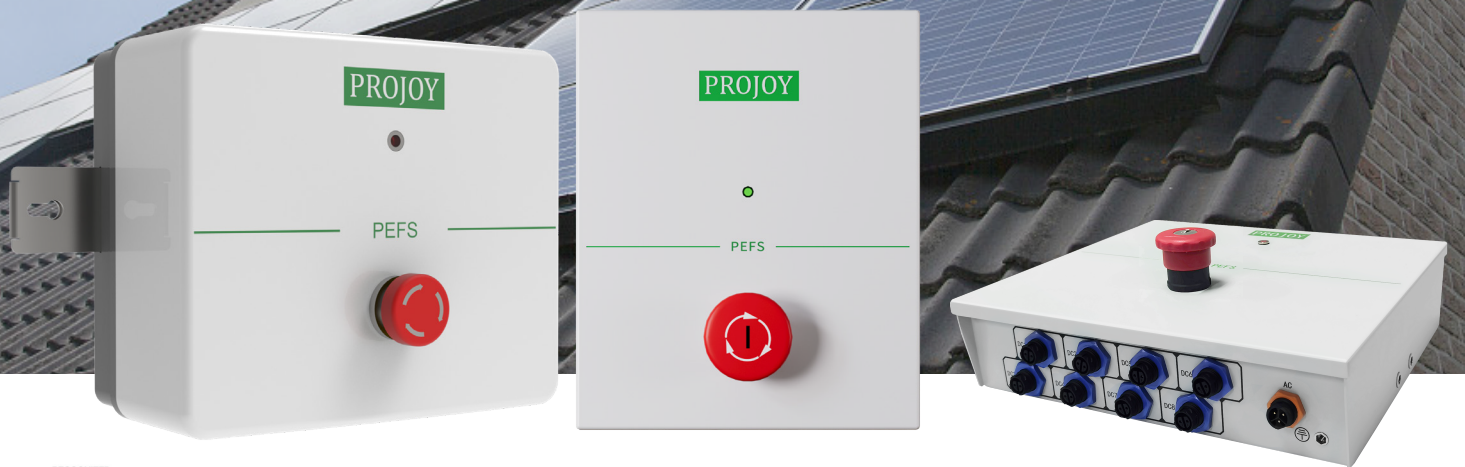


PEFS-PL80S-21
PEFS-PL120S-21



PEFS Series

Rapid Shutdown Control Box (DC24V)



High Craftsmanship and Standards



Comply with NEC2017 /
NEC2020(690.12) and
Sunspec RSD requirements



Flame retardant:
UL94-V0



lockable, avoiding
mis-action



UL 1741 PVRSE compliance
UL 3741 PVRSS compliance



Up to 480 pcs of
modules under
controller



Ingress protection
IP65

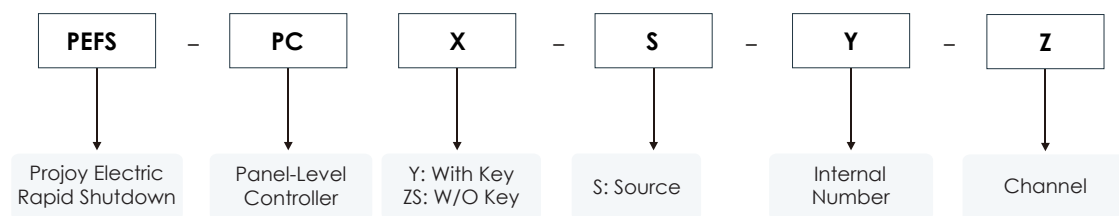


Max 50°C, No power
degradation



Anti-interfer-
ence, stable &
reliable

Select Code



— Switch To Safety! —

Technical data

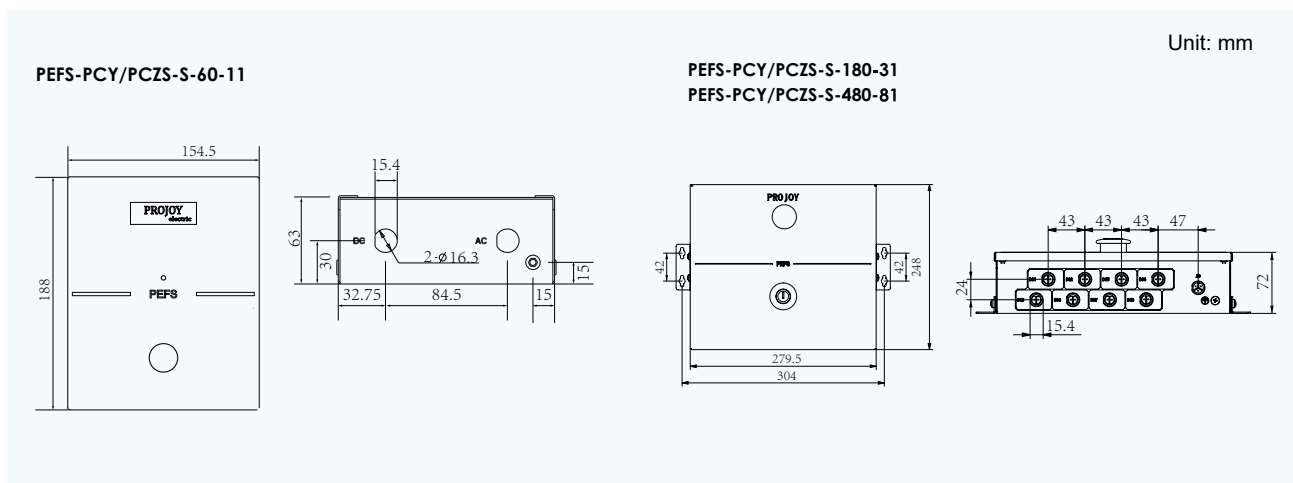
Control Box

Model	PEFS-PCY/PCZS-S-60-11	PEFS-PCY/PCZS-S-180-31
Operating AC Voltage Range	100-240V	180V-264V
Normal Frequency		50/60 Hz
Output Voltage		24V DC
Output Current	2.2A	8.8A(3 Channels)
24Vdc Control Cable Size		0.823 mm ² / 18 AWG
24Vdc Control Cable Length With Standard Connectors		20 m / 30 m / 100 m
Spare Terminal Connectors		Yes
Maximum PEFS-PL	30 Units	3*30 Units
Dimensions (mm)	155*188*63	248*280*72
With Lock		Optional
Operating Temperature Range		30°C~+55°C (Can work for 8 hours at 70°C)
Protection Class		IP65
Mounting		Wall Mounted
Maximum Distance (From controller box to the terminal RSD)		250m

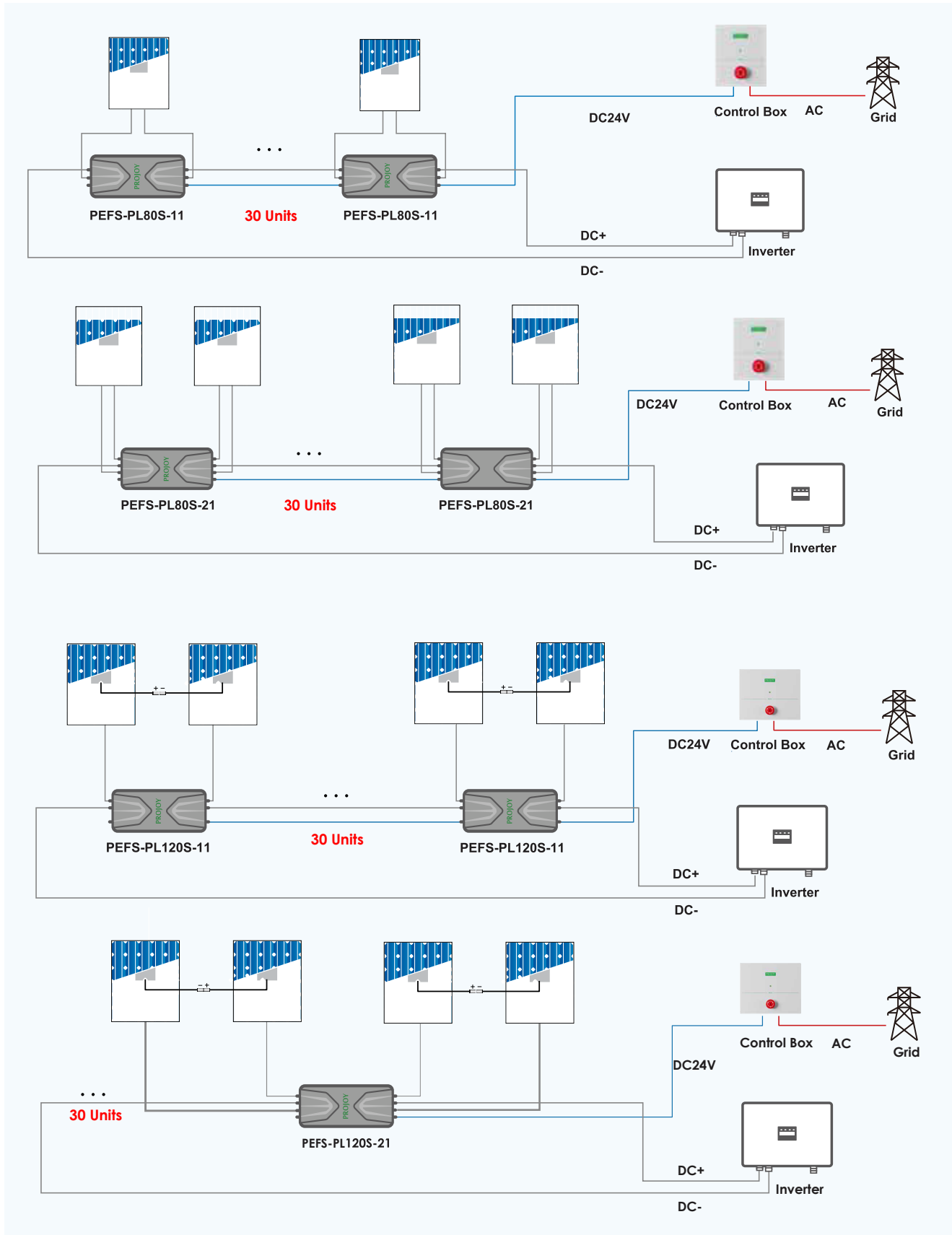
Control Box

Model	PEFS-PCY/PCZS-S-480-81
Operating AC Voltage Range	180 V-264V
Normal Frequency	50/60 Hz
Output Voltage	24V DC
Output Current / Per String	17.6A(8 Channels)
24Vdc Control Cable Size	0.823 mm ² / 18 AWG
24Vdc Control Cable Length With Standard Connectors	20 m / 30 m / 100 m
Spare Terminal Connectors	Yes
Maximum PEFS-PL	8*30 Units
Dimensions (mm)	248*280*72
With Lock	Optional
Operating Temperature Range	30°C~+55°C (Can work for 8 hours at 70°C)
Protection Class	IP65
Mounting	Wall Mounted
Maximum Distance (From controller box to the terminal RSD)	250m

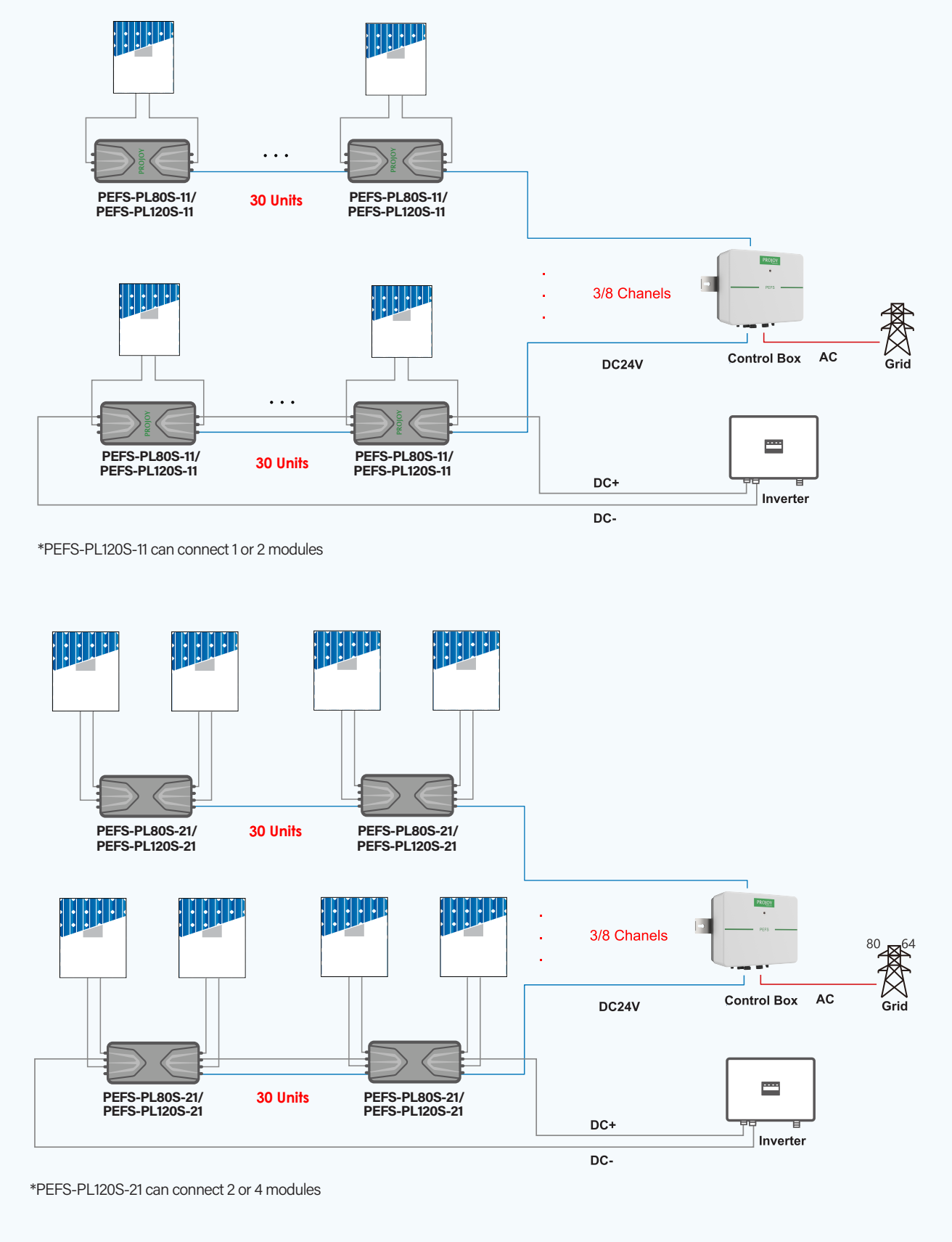
Dimension



Diagram



Diagram



*PEFS-PL120S-11 can connect 1 or 2 modules

*PEFS-PL120S-21 can connect 2 or 4 modules