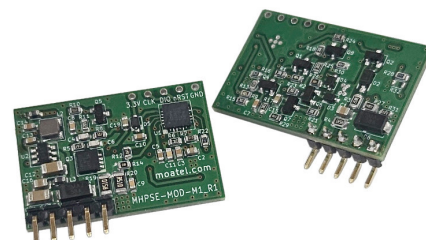
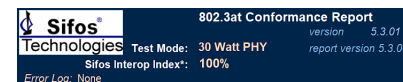


## Description

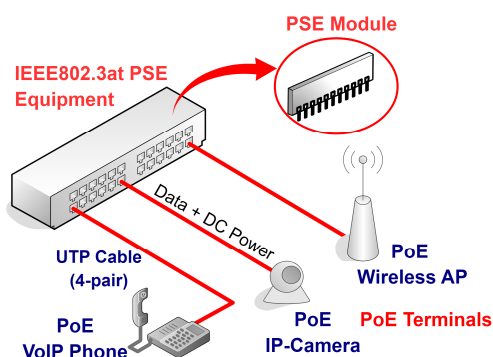
30W, 1-Port PSE(Power Sourcing Equipment) Module For IEEE802.3at Compliant PoE(Power over Ethernet) Application.

## Features

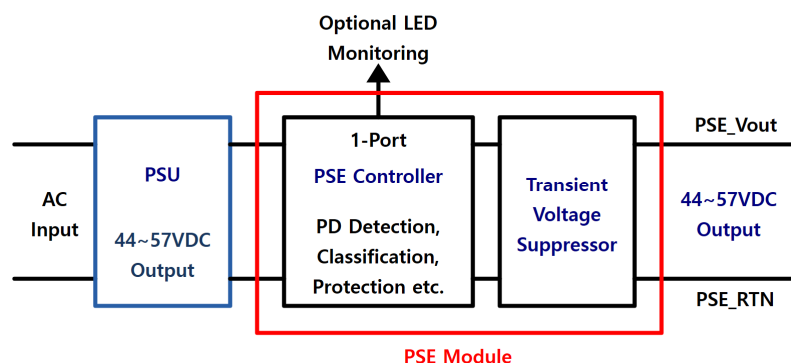
- Fully Supports IEEE802.3at Compliant (Sifos Interop index : 100%)
- Input Voltage Range : 44~57V(Type-1), 50~57V(Type-2)
- Maximum Output Power : 33W
- Short Circuit, Over-temperature Protection and In-rush Current Limit
- Auto-class discovery
- Single DC Power Supply Voltage Input
- Easy Installation and Low Cost
- RoHS Compliant



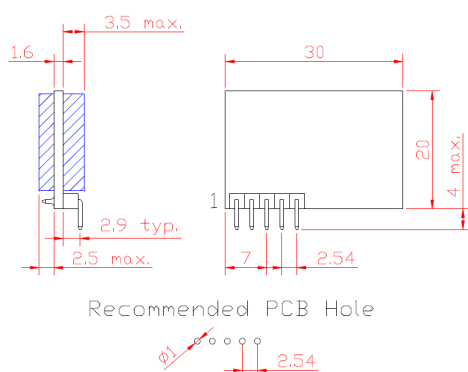
## Application Diagram



## Block Diagram



## Outline Drawing (Vertical Type)



- Dimensions : Nominal ( $\pm 0.25\text{mm}$ ) & in mm

## Pin Assignments

| Pin# | Name | Description                                              |
|------|------|----------------------------------------------------------|
| 1    | LED  | LED Anode : Connect to the Anode of the External LED     |
| 2    | VIN+ | Input (+) : Connect to the positive(+) output of the PSU |
| 3    | VOU+ | Output (+) : Positive(+) PSE output                      |
| 4    | VOU- | Output (-) : Negative(-) PSE output                      |
| 5    | GND  | Input GND : Connect to the GND output of the PSU         |

- External LED Cathod : Connect to GND (Pin#5)

## LED Flash Code

| No | Port Status                  | LED Flash Code | Flash Pattern                | Duration |
|----|------------------------------|----------------|------------------------------|----------|
| 1  | Standby                      | Blink (0.5s)   | ●(0.5s)○(0.5s)●(0.5s)○ ..... | Inf.     |
| 2  | Port On                      | On             | LED On (●)                   | Inf.     |
| 3  | Port Overload                | Blink (0.3s)   | ●(0.3s)○(0.3s)●(0.3s)○ ..... | 1.5s     |
| 4  | Port Short or MPS Power down | Blink (0.1s)   | ●(0.1s)○(0.1s)●(0.1s)○ ..... | 1.5s     |

| No | Item                         |                            | Specification             |
|----|------------------------------|----------------------------|---------------------------|
| 1  | Number of Port               |                            | 1-port                    |
| 2  | Input Voltage                | IEEE802.3af (~15.4W)       | 36~57 VDC                 |
|    |                              | IEEE802.3at Type1 (~15.4W) | 44~57 VDC                 |
|    |                              | IEEE802.3at Type2 (~30W)   | 50~57 VDC                 |
| 3  | Current Limit                | Class 0                    | 390 mA max.               |
|    |                              | Class 1                    | 102 mA max.               |
|    |                              | Class 2                    | 178 mA max.               |
|    |                              | Class 3                    | 390 mA max.               |
|    |                              | Class 4                    | 670 mA max.               |
| 4  | Signature Resistor           |                            | 19~26.5 kohm              |
| 5  | Classification Probe Voltage |                            | 15.5~20.5 V               |
| 6  | Dimension                    |                            | 30(W)×20(H)×7.6max.(D) mm |
| 7  | Operating Temperature        |                            | -20 ~ 70 °C               |
| 8  | Storage Temperature          |                            | -40 ~ 100 °C              |

PHY

4 X 75 Ohm

1000pF/2kV

10/100/1000 Base-T PoE Interface Transformer

RJ45

1

2

3

6

4

5

7

8

AC Input

PSU

VIN+ (2)

LED (1)

GND (5)

VOUT+ (3)

VOUT- (4)

Option : Line Filter For EMI Noise Suppression & Surge Protection

4 X 75 Ohm

4 X 10nF/100V

1000pF/2kV