

## 40-60A, non-isolated, POL

### Mornsun **KD12T-xx(40/60)A** series POL PS modules

Mornsun lately released KD12T-40A/60A series is a series of small volume, high-current digital POL power modules which can provide up to 60A output current by single module. When two modules are paralleled, they can mostly provide an output current at 120A. The output voltage can be accurately adjusted in the range of 0.6-4.5V. All these features make this series suitable for various POL power demand on the market.

#### Key features

- Adjustable output voltage: 0.6V-4.5VDC
- PM Bus function
- Multiple protections

#### Competitive Specs

- High output voltage accuracy:  $\pm 2\text{mV}$
- Low ripple & noise: 4mV
- Low transient response deviation: 18mV



This series of products has PMBus function, customer can adjust the parameters of the converters thru PMBus, there's no need to use a lot of analog devices in the peripheral circuits, which will improve the consistency and stability of the customer system.



## Product features

- Configuration and monitoring via PMBus
- Up to two modules can be paralleled to augment the output power
- Efficiency up to 95%
- Wide operating temperature range: -40°C to +85°C (ambient Temp.)
- Ultra-small size: 33.03x13.46x10.6mm (40A), 25.4x12.7x12.96mm (60A)
- With remote control, PGOOD, output tracking, remote sense functions
- With clock synchronization, multi-module paralleling, current sharing functions
- With input undervoltage, output over/under voltage protection function

## >>Mornsun POL PS modules layout

	Series	Power(W)	Input Voltage(VDC)	Output Voltage(VDC)	Output Current	Dimension(mm)
NEW	KD12T-40A	112.2	12(4.5-14.4)	0.6-4.5	40A	33.03*13.46*10.60
NEW	KD10T-60A	270	12(4.5-14.4)	0.6-4.5	60A	25.4*12.7*12.96
	K12T-6A-P(N)	30	8.3-14	0.75-5	6A	20.30*11.40*6.60
	K12T-10A-P(N)	50	8.3-14	0.75-5	6A	33.00*13.50*8.30
	K12T-16A-P(N)	80	8.3-14	0.75-5	6A	33.00*13.50*8.30
	K12T-20P(N)	100	8.3-14	0.75-5	6A	33.00*13.50*9.90
	K12MT-6A-P(N)	33	12(4.5-14.4)	0.6-5.5	6A	12.20*12.20*8.70
	K12MT-12A-P(N)	58.08	12(4.5-14.4)	0.6-5.5	12A	12.20*12.20*8.70
	K12MT-16A-P(N)	66	12(4.5-14.4)	0.6-3.63	16A	12.20*12.20*8.40

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