COSEL **Power module type**

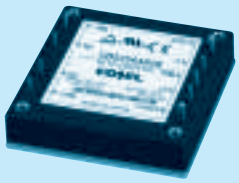
CBS350

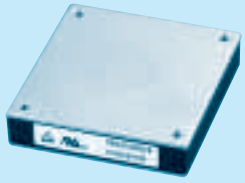
Ordering information

CB	S	350	48	12	-□
①	②	③	④	⑤	⑧

(LVD)

RoHS





①Series name
②Single output
③Output wattage
④Input voltage
24:DC20 - 36V
48:DC36 - 76V
⑤Output voltage
⑥Optional
R :with Remote ON/OFF
Positive logic control
T :with Mounting hole
ϕ3.4 thru

MODEL	CBS3502412	CBS3502424	CBS3502428	CBS3502432	CBS3504812	CBS3504824	CBS3504828	CBS3504832
MAX OUTPUT WATTAGE[W]	300	348	350	352	348	348	350	352
DC OUTPUT	12V 25A	24V 14.5A	28V 12.5A	32V 11A	12V 29A	24V 14.5A	28V 12.5A	32V 11A

SPECIFICATIONS

	MODEL		CBS3502412	CBS3502424	CBS3502428	CBS3502432	CBS3504812	CBS3504824	CBS3504828	CBS3504832
INPUT	VOLTAGE[V]		DC20 - 36				DC36 - 76			
	CURRENT[A]	※1	14.5typ	16.7typ	16.4typ	16.5typ	8.33typ	8.15typ	8.10typ	8.15typ
	EFFICIENCY[%]	※1	86typ	87typ	89typ	89typ	87typ	89typ	90typ	90typ
OUTPUT	VOLTAGE[V]		12	24	28	32	12	24	28	32
	CURRENT[A]		25	14.5	12.5	11	29	14.5	12.5	11
	LINE REGULATION[mV]		24max	48max	56max	64max	24max	48max	56max	64max
	LOAD REGULATION[mV]		24max	48max	56max	64max	24max	48max	56max	64max
	RIPPLE[mVp-p]	-20 to +100℃ ※2	120max	150max	180max	180max	120max	150max	180max	180max
		-40 to -20℃ ※2	150max	180max	220max	220max	150max	180max	220max	220max
		0 to 15%Load ※2	240max	300max	360max	360max	240max	300max	360max	360max
	RIPPLE NOISE[mVp-p]	-20 to +100℃ ※2	150max	180max	220max	220max	150max	180max	220max	220max
		-40 to -20℃ ※2	200max	250max	280max	280max	200max	250max	280max	280max
		0 to 15%Load ※2	300max	360max	440max	440max	300max	360max	440max	440max
	TEMPERATURE REGULATION[mV]	0 to +65℃	120max	240max	280max	320max	120max	240max	280max	320max
		-40 to +100℃	240max	480max	560max	640max	240max	480max	560max	640max
	DRIFT[mV]	※3	40max	90max	90max	120max	40max	90max	90max	120max
	START-UP TIME[ms]		200max (DCIN 24V, Io=100%)				200max (DCIN 48V, Io=100%)			
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V] ※4		Fixed (TRM pin open), adjustable by external resistor							
			7.2 - 13.2	14.4 - 26.4	16.8 - 30.8	25.6 - 35.2	7.2 - 13.2	14.4 - 26.4	16.8 - 30.8	25.6 - 35.2
	OUTPUT VOLTAGE SETTING[V]	※1	11.88 - 12.12	23.76 - 24.24	27.72 - 28.28	31.68 - 32.32	11.88 - 12.12	23.76 - 24.24	27.72 - 28.28	31.68 - 32.32
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically							
	OVERVOLTAGE PROTECTION[V]		13.80 - 16.80	27.60 - 33.60	32.20 - 39.20	36.80 - 44.80	13.80 - 16.80	27.60 - 33.60	32.20 - 39.20	36.80 - 44.80
	REMOTE SENSING		Provided							
	REMOTE ON/OFF		Provided (Negative logic L : ON, H : OFF)							
ISOLATION	INPUT-OUTPUT		DC1,500V or AC1,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min(20±15℃)							
	INPUT-BASE PLATE		DC1,500V or AC1,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min(20±15℃)							
	OUTPUT-BASE PLATE		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15℃)							
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-40 to +100℃ (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max							
	STORAGE TEMP.,HUMID.AND ALTITUDE		-40 to +100℃, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max							
	VIBRATION		10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis							
	IMPACT		196.1m/s² (20G), 11ms, once each along X, Y and Z axis							
SAFETY	AGENCY APPROVALS		UL60950-1, C-UL, EN60950-1							
OTHERS	CASE SIZE/WEIGHT		57.9×12.7×61.0mm (W×H×D) / 83g max							
	COOLING METHOD		Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)							

※1 At rated input(DC24V,DC48V), rated load, and aluminum base plate temperature 25℃.
※2 Ripple and ripple noise is measured by using measuring board with recommended capacitor Co & the film capacitor 0.1μF. Refer to the manual.
※3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25℃, with the input voltage held constant at the rated input/output.
※4 When the input voltage is in the range of DC20 - 22V, DC36 - 40V, output voltage is limited. Refer to the manual.