### DC Input 100W / 140W Power Supply with Battery Backup Function



TB-3

TB-3 Connector Application explain

PIN2: Pulse signal indication of DC input

PIN7/PIN8: Measure battery capacity

\*Notes: It can be used as an identifier by

PIN2 signal while there are interrupt of DC

For ACE-810V/818C are not only applied

as a power supply. It can be treated as a

UPS (uninterruptible power supply) while

combined with battery module .This series of

power supply provide stable electronic and

send signal from TB-3 of PIN2 for doing

system control and configuration depending

on user's demands. Moreover, it is easy to

connect within voltameter for doing voltage

DC output

(ATX)

DC Input

**BATTERY IN** 

PIN1: Power Good

status PIN3: +5Vsb

PIN4: Ground

PIN5: Power on

power and recovery.

monitoring.

The ACE-810V/818C is designed for mobile PC applications. The most valuable feature is that it has a secondary battery input that keeps the power supply running when the primary 12V DC or 24V DC is lost. Then the power supply switches to battery backup mode. ACE-810V/818C two kinds of signals VS1 and VS2. After the primary lost message is displayed, the PC may do a system shutdown that is controlled by the software program

## **SPECIFICATIONS**



**Dimensions** 

BOTTON





Model	Input Range	Input Current
ACE-818C	+18V~+32V DC	10A@+24V DC
ACE-810V	+9V~+16V DC	14A@+12V DC

#### ◆ Output Rating: (at 50°C)

Model	Rated Load			Max. Load				
	+5V	+12V	-12V	+5Vsb	+5V	+12V	-12V	+5Vsb
ACE-818C	16A	4A	0.5A	1A	20A	8A	0.5A	1.5A
ACE-810V	8A	2A	0.5A	1A	12A	4A	0.5A	1.5A

Note: The total output continuous power shall be kept under 140W at 24VDC input (ACE-818C) The total output continuous power shall be kept under 100W at 12VDC input and forced air-cooling. Without fan cooling is only 80W.(ACE-810V)

- ♦ Min. Load: +5V/0.5A +12V/0.2A
- ◆ Efficiency: Higher than 70% at 12V or 24VDC input
- ◆ Protection: over voltage, short circuit, and over load protection.
- ♦ Input polarity operation: When wrong polarity is connected to input terminal, should not cause any damage on the power supply.
- ♦ Power On Signal: This TTL compatible signal (active low) is use to switch ON the main output. When "Power ON" is disconnected from secondary common, all outputs except +5Vsb shall turn off.
- ♦ Battery Backup and Hold up time: Upon loss of DC input, the unit must operate from the battery. Hold up time is around 2 minute on the battery capacity.
- ◆ Built-in cooling fan
- ♦ MTBF: 110,000 hrs
- ♦ Vibration: 10Hz~55Hz at 2G, 3minutes period, 30 minutes along X, Y, and Z axis.
- ♦ Shock: 10G for 11ms half sine wave, one time for each of ±X, ±Y, ±Z axis.
- ◆ Safety: UL 1950, TUV EN 60950: 2000 meets CE
- ◆ EMI : Designed to meet the following radiation limited : FCC docket 20780 curve "B" EN55022 class "B"
- ◆ EMS: Designed to meet the following limits EN61000-4-2 4KV contact; 8KV air discharge Criterion B EN61000-4-3 10V/M with 80% AM Criterion A

EN61000-4-4 2KV Criterion B EN61000-4-5 0.5KV Criterion B

- ◆ Operating temperature : 0~50°C
- ♦ Storage temperature: -20 ~85°C
- ◆ Connectors : TB1- primary DC input: 3-position Terminal blocks TB2-DC output: 6-position Terminal blocks TB3-auxiliary 8-pin connector:

TB4-Battery input: 2-position Terminal blocks

### Pin Define

PIN	TB1	TB2	TB3	TB4			
1	+	+5V	Vin signal 1 (Hi, Lo)	Battery (-)			
2	ı	+5V	Vin signal 2 (Hi pulse)	Battery (+)			
3	Ш	GND	+5Vsb				
4		GND	GND				
5		+12V	Power on				
6		-12V	NC				
7			I/P Battery monitor (+)				
8			I/P Battery monitor (-)				

When Vin Signal 1 change state, Vin signal 2 will Provide one shot pulse between 0.2 sec and 0.6 sec

# ORDERING INFORMATION

- ACE-818C ACE-810V
- +24V DC Input 140W ATX / Battery Backup Function Power Supply

+12V DC Input 100W ATX / Battery Backup Function Power Supply

For \$6-32 seros