

# NATURAL COOLING REMOTE MODULE

ETC280/48-1000



## KEY FEATURES

- Wide operating temperature range:  $-40^{\circ}\text{C}$ ~ $75^{\circ}\text{C}$  (the output will derating when  $>55^{\circ}\text{C}$ )
- Compatible with AC input and DC input. Users can select the mode according to actual need
- The module can be used in parallel and can achieve digitalized load sharing between the modules. The load sharing imbalance is less than  $\pm 5\%$  when the module is 10%~100% loaded
- Input power limiting control function, ensures steady operating when input voltage changes
- IP55 high protection level, applicable to severe outdoor environment
- Power derating by temperature function, ensures steady operating when ambient temperature changes
- No fan, air cooling, mute operating mode
- Output current limiting point adjustment function. The maximum current is 20.8A, the output voltage range: 42Vdc~58Vdc
- Input over/under voltage and over temperature protection function
- Communication ports such as dry contacts

## Description

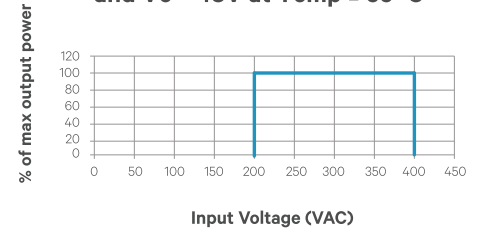
The ETC280/48-1000 natural cooling remote module is designed to meet the need of small outdoor power supply with high protection, and the need of remote DC power supply. This module which adopts natural air cooling is of high protection and low noise, especially for severe environment. The compatibility with AC and DC input modes satisfy different power supply needs, and the support in DC output parallel meet the larger power supply need.



## System Configuration

CONFIGURATION	ETC280/48-1000
System capacity	20A
Input power distribution	1 × 7.5A, OT terminal
Output power distribution	4 × 21.8A, OT terminal
Lightning protection	Input: C-Level, Output: D-Level
Dry contact	2 (dry contact 1: report input under voltage fault, dry contact 2: report red indicator fault)

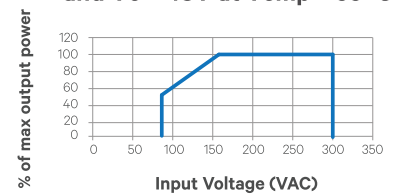
Output power vs. Input voltage and  $V_o > 48V$  at Temp  $\leq 55^\circ C$



## System Parameter

PARAMETER	VALUE
Operating temperature	$-40^\circ C \sim 75^\circ C$ ( $>55^\circ C$ : the output will derating)
Relative humidity	95%
Altitude	2000m (derating is necessary above 2000m)
Input voltage range	AC: 85Vac ~ 300Vac, or DC: 200Vdc ~ 400Vdc
Rated input voltage	AC: 220Vac, or DC: 280Vdc
Input current	$<7.5A$
Output DC voltage range	42Vdc ~ 58Vdc
Output DC current	0A ~ 20.8A
Total regulation	$< \pm 1\%$
Efficiency	Peak efficiency: 95%, full load efficiency: $>94\%$
Current sharing	When the load is 10%~100%, the current sharing error is $< \pm 5\%$ rated output current

Output power vs. Input voltage and  $V_o > 48V$  at Temp  $\leq 55^\circ C$



## Mechanical Parameter

PARAMETER	VALUE
Dimensions(mm)	180(W) × 90(D) × 360(H)
Weight(Kg)	5