

Single Power Rider Family

Sophisticated & Simple

Advantages:

- Single to System approach
- Multi Task element – High end Technology in a “small box”
- Solid state-based technology.
- 3 levels of protection:
 - Software – I^2t
 - Hardware – 1 μ second cutoff of over current
 - Mechanical Fuse (only in 25A)
- Cascade option



Single Power Rider 150A/250A	Single Power Rider 25A
0-150 Ampere	0-25 Ampere
8 MOSFET transistors, power switch	2 MOSFET transistors, power switch
Data logger. Coulomb counter, High current situation	Remote ON-OFF signal and digital status
150A/200A continuous current	Data logger
<ul style="list-style-type: none"> • Discrete ON/OFF command and status output (open collector) • High reliability fuse replacement • Based on Redler's IP. (Patent pending PCT) • 8-48VDC • Communication: CAN BUS (1Mbit- J1939) and RS 422/485 • Master Slave Mode • Firmware upgrade via CAN BUS • MMI – Load/Read parameters and live graph monitor • Protections: Over current, i^2t, Temperature, voltage, Hardware tripped, more... • Fast 1μSec hardwired cutoff protection • Comprehensive Error messages • Pilot LED • Reliable: <ul style="list-style-type: none"> • high current, low RDS-on, 100V Power MOSFETs, Hardware fast short protection • New effective thermal solution 	

Specifications:

Function	Parameter		
	Single Power Rider 150A	Single Power Rider 200A	Single Power Rider 25A
CPU and Memory			
CORE	STM32F091K4U7 - 32bits DSP		
Flash	64 Kbytes		
RAM	8 Kbytes		
CORE Speed	40Mhz		
MOSFET Interface			
Nominal channel	resistance 2.1 mΩ (room temp.)		
Charge Pump	>10		
Power MOSFET	8X100V@150A	2X100V@100A	
Switch Turn ON	200nSec		
Switch Turn OFF	300nSec		
Power dissipation 12.5 Ampere	1.3W>		
Current measurement accuracy	2%		
General Purpose Interface			
Digital Input	4	1	
OC output	2	1	
Communication I	CANBUS - CAN 2.0B 1Mbit/Sec		
Communication II	RS485 - 614400 bit/Sec		
Power Supply/Operating temperature			
Current consumption	<15mA		
Operating Voltage	8V to 80V		
Current range	0 to 150A	0 to 200A	0 to 25A
Ambient Operating Temperature	-40°C +71°C		
Storage temp	-65°C +150°C		
I/O Connection			
Data and control connector	Norocomp 197-015-113-1 male	Harwin M80-5L10622MC	
Power In Power out	WE-7461059	KeyStone-1265	
Ground	Harwin-R25-1001402	KeyStone-4904	
Size	101.6mm X 54mm X 26.6mm	124mmX 67mm X 28.6mm	46.4mm X 39mm X 16.4mm



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