







Features





Applications

- Public safety battery back-up (Red box)
- Security system
- Emergency lighting system
- Signal and alarms design meet UL2524,NFPA 1221,BS EN/EN54-4 · Alarm system
 - and GB17945 requirement, with adjustable parameters configurable Uninterruptible DC-UPS system, battery detection system
 - Central monitoring system
 - Industrial automation

Load-dependent high speed battery charging

Form C relay contacts and LED indicators for AC Fail,

DFKRA

Universal input 90~305VAC (277VAC available)

and status monitoring in ONE compact unit

Built-in MODBus protocol, CANBus optional

Battery Low, Charger Fail, and DC-OK

· Protections: Short circuit / Overload / Over voltage / Over temperature(auto derating) / Battery reverse polarity (No damage) / Battery cut off

· All-in-one function with Power supply, DC-UPS, battery charger

- · Battery low protection / Battery reverse polarity protection
- -30 ~ +70°C wide operating temperature
- · Cooling by free air convection

by communication interface

- Can be installed on DIN rail TS-35/7.5 or 15
- Charging curve can be set with SBP-001 (Smart programmer sold separately, please refer to: <u>https://www.meanwell.com/webapp/product/search.aspx?prod=SBP-001</u>)
- 20~100% charging current adjustable by VR
- 2 or 3-stage selectable by DIP S.W
- · Suitable for lead acid and lithium-ion batteries
- 3 years warranty

Description

DRS-480 is a 480W AC/DC DIN rail type security power supply series. In addition to the primary output, there is an additional charger circuit that will automatically adjust charge current depending on the primary output current. DRS-480 accepts the universal input between 90VAC and 305VAC, and supports output 24VDC, 36VDC, and 48VDC nominal systems. With high efficiency up to 93.5%, it can operate with free air convection cooling under -30°C through 70°C ambient temperature. In addition to the key protection features such as overload protection, over voltage protection, battery low voltage disconnect, and battery reverse polarity protection, the DRS-480 also provides Form-C contacts and LED indicator alarm signals for AC-fail, battery low, charger fail, and DC-OK to allow easy integration into security systems that comply with local alarm codes.

Model Encoding

DRS - 480 - 48	
	Function option(Blank: Built-in MODBus, CAN: CANBus optional) Output voltage(24V/36V/48V)
	Rated wattage
	Series name Sile Name OBS 4

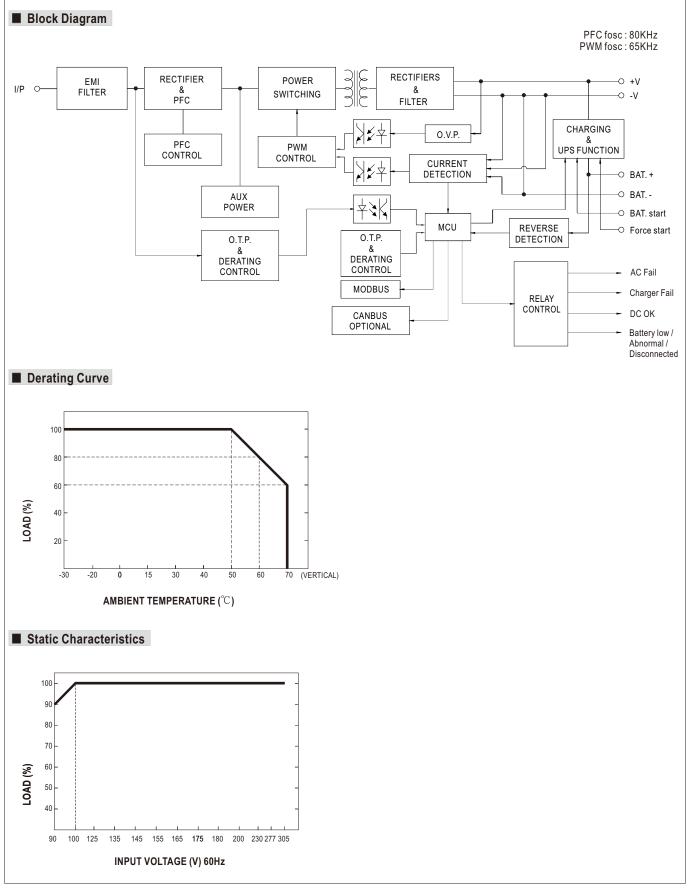
GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx



MODEL	ATION									
			DRS-480-24		DRS-480-36		DRS-480-48			
	OUTPUT V	OLTAGE Note.2	24V		36V		48V			
	LOAD CUR	RENT RANGE	0~20A		0~13.3A		0 ~ 10A			
	BATTERY C	URRENT (CC)(max.)	15.4A		10.2A		7.7A			
		NDED BATTERY (AMP HOURS)Note.3	20 ~ 200AH		13 ~ 133AH		10~100AH			
-		TPUT POWER Note.4		all Channels m	ust not exceed 48	0W, load has priorit	y. 550W peak capability within 5s.			
OUTPUT	RIPPLE & I	OISE (max.) Note.5			360mVp-p		480mVp-p			
	VOLTAGE	OLERANCE Note.6			±1.0%		±1.0%			
	LINE REGU	JLATION	±0.5%							
-	LOAD REG		±0.5%	±0.5% ±0.5%						
-	SETUP RIS		2400ms, 1000ms/230VA	,	1000ms/115VAC at fu	ll load				
	HOLD UP 1	())		s/115VAC at full l	oad					
-	VOLTAGE			431VDC						
	FREQUEN	· · ·	47 ~ 63Hz		at full load					
INPUT F		CTOR (Typ.)	PF>0.95/230VAC F 92.5%	PF>0.98/115VAC	93.5%		93.5%			
-	EFFICIENCY (Typ.) AC CURRENT (Typ.)			230VAC	93.3 %		33.3 %			
F	INRUSH CURRENT (Typ.)		COLD START 30A/115		0VAC					
	SHORT CI	,	Protection type: Constar			after 5 sec re-power o	n to recover			
			105 ~ 135% rated output							
OVERLOAD			Protection type: Constar	•	shutdown output volf	age after 5 sec.				
			Automatically drop load	0.	•	0				
PROTECTION	OVERIEN	IPERATURE	Protection type : Shut do			after temperature goes	down.			
	OVER VOL	TAGE	Load main output : 32.4 ~ 3		Load main output : 48		Load main output : 64.8 ~ 74.5V			
			Protection type : Shut do	wn o/p voltage, r		r				
	BATTERY		20.9±0.5V		31.3±0.7V		41.8±1V			
	REVERSE POLARITY		By internal MOSFET, no							
	AC FAIL		Signals AC failure and a Relay contact output, ON				C, 132~187VAC of 220VAC.			
	FORM-C RELAY DC OK		Relay contact output, Of							
			Signals normal DC output	.	0					
			Relay contact output, ON							
		BATTERY LOW/	Relay contact output, Of	√ : Battery OK ; O	FF : Battery Low ; ma	x. rating : 30Vdc/1A				
FUNCTION	ABNORMAL/ DISCONNECTED		Battery low voltage : < 22	2V±0.3V	Battery low voltage	:<33V±0.4V	Battery low voltage : < 44V±0.5V			
	BATTERY START		Restart system directly from battery and does not require AC power							
	DC-UPS		UPS switch to battery po							
	ADJUSTABLE CHARGING CURRENT		20% ~ 100% charging current adjustable by VR							
	BATTERY TEMPERATURE COMPENSATION		The system can change	the battery charg	ing voltage by detecti	ng the temperature (Pl	ease refer to page 9~10 for more details).			
			-30 ~ +70°⊂ (Refer to "D							
ŗ	WORKING TEMP. WORKING HUMIDITY		-30 ~ +70 °C (Refer to "Derating Curve") 20 ~ 90% RH non-condensing							
-		TEMP., HUMIDITY	-40 ~ +85°C , 10 ~ 95% RH non-condensing							
ENVIRONMENT		EFFICIENT	$\pm 0.03\%$ °C (0 ~ 50°C) on Load output							
Environment	VIBRATIO		10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes							
		GALTITUDE Note.8	2000 meters / OVC III							
Ī	OVER VOL	TAGE CATEGORY	III; According to Dekra BS EN/EN62368-1; altitude up to 2000 meters							
	SAFETY S	TANDARDS	UL62368-1, Dekra BS E	N/EN62368-1, RC	CM AS/NZS 62368.1 a	approved; EAC TP TC (004 pending			
	WITHSTAN	ID VOLTAGE	I/P-O/P: 4KVAC I/P-FG: 2KVAC O/P-FG: 1.5KVAC							
	ISOLATIO	N RESISTANCE	I/P-O/P, I/P-FG, O/P-FG	: 100M Ohms/500	0VDC/25°C/70%RH	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC/25°C/ 70%RH				
			Developmenter							
			Parameter	Standard		Test Level / Note				
			Conducted	BS EN/EN55	032 (CISPR32)	Class B				
	EMC EMIS	SION	Conducted Radiated	BS EN/EN55 BS EN/EN55	032 (CISPR32)	Class B Class B				
	EMC EMIS	SION	Conducted Radiated Harmonic Current	BS EN/EN55 BS EN/EN55 BS EN/EN61	032 (CISPR32) 000-3-2	Class B Class B 				
SAFETY &	EMC EMIS	SION	Conducted Radiated Harmonic Current Voltage Flicker	BS EN/EN55 BS EN/EN55 BS EN/EN61 BS EN/EN61	032 (CISPR32) 000-3-2 000-3-2	Class B Class B 				
SAFETY &	EMC EMIS	SION	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I	BS EN/EN55 BS EN/EN55 BS EN/EN61 BS EN/EN61 EN61204-3, BS EN	032 (CISPR32) 000-3-2 000-3-2	Class B Class B EN50082-2)				
SAFETY &	EMC EMIS	SION	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter	BS EN/EN55 BS EN/EN55 BS EN/EN61 BS EN/EN61 EN61204-3, BS EN Standard	032 (CISPR32) 000-3-2 000-3-2 I/EN61000-6-2(BS EN/I	Class B Class B EN50082-2) Test Level / Note	2. AKU contact: critoria A			
SAFETY &	EMC EMIS	SION	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD	BS EN/EN55 BS EN/EN55 BS EN/EN61 BS EN/EN61 BS EN/EN61 EN61204-3, BS EN Standard BS EN/EN61	000-3-2 000-3-2 000-3-2 //EN61000-6-2(BS EN/I 1000-4-2	Class B Class B N50082-2) Test Level / Note Level 3, 8KV air ; Level :	2, 4KV contact; criteria A			
SAFETY & _ EMC (Note.10)			Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/E Parameter ESD Radiated	BS EN/EN55 BS EN/EN55 BS EN/EN61 BS EN/EN61 EN61204-3, BS EN Standard BS EN/EN61 BS EN/EN61	002 (CISPR32) 000-3-2 000-3-2 //EN61000-6-2(BS EN/k 000-4-2 1000-4-3	Class B Class B EN50082-2) Test Level / Note Level 3, 8KV air ; Level 2 Level 3, 10V/m ; crite	eria A			
SAFETY & _ EMC (Note.10)	EMC EMIS		Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/I Parameter ESD Radiated EFT / Burst	BS EN/EN55 BS EN/EN55 BS EN/EN61 BS EN/EN61 EN61204-3, BS EN Standard BS EN/EN61	002 (CISPR32) 000-3-2 000-3-2 //EN61000-6-2(BS EN/k 1000-4-2 1000-4-3 1000-4-4	Class B Class B SN50082-2) Test Level / Note Level 3, 8KV air ; Level 2 Level 3, 10V/m ; criter Level 3, 2KV ; criteri	eria A a A			
SAFETY & _ EMC (Note.10)			Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge	BS EN/EN55 BS EN/EN55 BS EN/EN61 BS EN/EN61 EN61204-3, BS EN Standard BS EN/EN61	002 (CISPR32) 000-3-2 //EN61000-6-2(BS EN/I 1000-4-2 1000-4-3 1000-4-4 1000-4-5	Class B Class B EN50082-2) Test Level / Note Level 3, 8KV air ; Level 3 Level 3, 10V/m ; criteri Level 3, 2KV ; criteri Level 3, 1KV/Line-Li	eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria.			
SAFETY & _ EMC (Note.10)			Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted	BS EN/EN55 BS EN/EN55 BS EN/EN61 BS EN/EN61 BS EN/EN61 EN61204-3, BS EN Standard BS EN/EN61	002 (CISPR32) 000-3-2 000-3-2 //EN61000-6-2(BS EN/I 000-4-2 1000-4-3 1000-4-3 1000-4-5 1000-4-6	Class B Class B EN50082-2) Test Level / Note Level 3, 8KV air ; Level 2 Level 3, 10V/m ; criteri Level 3, 1KV/Line-Lii Level 3, 1KV/Line-Lii Level 3, 10V ; criteria	eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria. a A			
SAFETY & _ EMC (Note.10)	EMC IMMU	NITY	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field	BS EN/EN55 BS EN/EN55 BS EN/EN61 BS EN/EN61 EN61204-3, BS EN Standard BS EN/EN61	002 (CISPR32) 000-3-2 000-3-2 //EN61000-6-2(BS EN/I 000-4-2 1000-4-3 1000-4-3 1000-4-5 1000-4-6	Class B Class B EN50082-2) Test Level / Note Level 3, 8KV air ; Level 3 Level 3, 10V/m ; criteri Level 3, 2KV ; criteri Level 3, 1KV/Line-Li	eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria. a A			
SAFETY & _ EMC (Note.10)	EMC IMMU		Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted	BS EN/EN55 BS EN/EN55 BS EN/EN61 BS EN/EN61 EN61204-3, BS EN Standard BS EN/EN61	002 (CISPR32) 000-3-2 000-3-2 //EN61000-6-2(BS EN/I 000-4-2 1000-4-3 1000-4-3 1000-4-5 1000-4-6	Class B Class B EN50082-2) Test Level / Note Level 3, 8KV air ; Level 2 Level 3, 10V/m ; criteri Level 3, 1KV/Line-Lii Level 3, 1KV/Line-Lii Level 3, 10V ; criteria	eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria. a A			
SAFETY & _ EMC (Note.10)	EMC IMMU	NITY ECTION AND	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/E	BS EN/EN55 BS EN/EN55 BS EN/EN61 BS EN/EN61 EN61204-3, BS EN Standard BS EN/EN61	000-3-2 000-3-2 V/EN61000-6-2(BS EN/ 1000-4-2 1000-4-3 1000-4-3 1000-4-5 1000-4-6 1000-4-8	Class B Class B EN50082-2) Test Level / Note Level 3, 8KV air ; Level 2 Level 3, 10V/m ; criteri Level 3, 2KV ; criteri Level 3, 1KV/Line-Lii Level 3, 10V ; criteria Level 4, 30A/m ; criteria	eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria. a A eria A			
SAFETY & _ EMC (Note.10)	EMC IMMU FIRE DETI FIRE ALAI	NITY ECTION AND RM SYSTEM	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/E	BS EN/EN55 BS EN/EN55 BS EN/EN61 BS EN/EN61 BS EN/EN61 EN61204-3, BS EN Standard BS EN/EN61	000-3-2 000-3-2 000-3-2 V/EN61000-6-2(BS EN/ 1000-4-2 1000-4-3 1000-4-3 1000-4-4 1000-4-5 1000-4-6 1000-4-8	Class B Class B SN50082-2) Test Level / Note Level 3, 8KV air ; Level 2 Level 3, 10V/m ; criteri Level 3, 2KV ; criteri Level 3, 1KV/Line-Li Level 3, 10V ; criteria Level 4, 30A/m ; criteria	eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria a A eria A			
SAFETY & EMC (Note.10)	EMC IMMU FIRE DETI FIRE ALAI MTBF	NITY ECTION AND RM SYSTEM	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/IE 556.6K hrs min. Telco	BS EN/EN55 BS EN/EN55 BS EN/EN61 BS EN/EN61 BS EN/EN61 EN61204-3, BS EN Standard BS EN/EN61 SS EN/EN61 SS EN/EN61 SS EN/EN61 BS EN/EN61 SS EN/EN61 BS EN/EN61 BS EN/EN61 SS EN/EN61 BS EN/EN61 BS EN/EN61 BS EN/EN61 BS EN/EN61	000-3-2 000-3-2 000-3-2 V/EN61000-6-2(BS EN/ 1000-4-2 1000-4-3 1000-4-3 1000-4-4 1000-4-5 1000-4-6 1000-4-8	Class B Class B SN50082-2) Test Level / Note Level 3, 8KV air ; Level 2 Level 3, 10V/m ; criteri Level 3, 2KV ; criteri Level 3, 1KV/Line-Li Level 3, 10V ; criteria Level 4, 30A/m ; criteria	eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria. a A eria A			
SAFETY & EMC (Note.10)	EMC IMMU FIRE DETI FIRE ALAI MTBF DIMENSIO PACKING 1. All para	NITY ECTION AND RM SYSTEM N meters NOT specia	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/IE 556.6K hrs min. Telcc 110*125.2*150.7mm (W 1.65Kg; 6pcs/ 11Kg / 1.4	BS EN/EN55 BS EN/EN55 BS EN/EN61 BS EN/EN61 BS EN/EN61 EN61204-3, BS EN Standard BS EN/EN61 SCUTT red at 230VAC ir	i032 (CISPR32) 000-3-2 000-3-2 //EN61000-6-2(BS EN/I 1000-4-2 1000-4-3 1000-4-3 1000-4-5 1000-4-5 1000-4-6 1000-4-8 1core); 74.5K hrs m	Class B Class B N50082-2) Test Level / Note Level 3, 8KV air ; Level 2 Level 3, 10V/m ; criteri Level 3, 10V ; criteri Level 3, 10V ; criteria Level 3, 10V ; criteria Level 4, 30A/m ; criteria hin. MIL-HDBK-217F	eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria. a A eria A = (25°C)			
SAFETY & EMC (Note.10)	EMC IMMU FIRE DETI FIRE ALAI MTBF DIMENSIO PACKING 1. All para 2. Variable	NITY ECTION AND RM SYSTEM N meters NOT specia e with charger voltage	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/IE 556.6K hrs min. Telco 110*125.2*150.7mm (W 1.65Kg; 6pcs/ 11Kg / 1.4 Illy mentioned are measu ge when battery is conne	BS EN/EN55 BS EN/EN55 BS EN/EN61 BS	000-3-2 000-3-2 000-3-2 V/EN61000-6-2(BS EN/I 1000-4-2 1000-4-3 1000-4-3 1000-4-3 1000-4-5 1000-4-5 1000-4-6 1000-4-8 Icore); 74.5K hrs m nput, rated load and	Class B Class B Class B Test Level / Note Level 3, 8KV air ; Level 2 Level 3, 8KV air ; Level 2 Level 3, 10V/m ; criteria Level 3, 10V ; criteria Level 3, 10V ; criteria Level 4, 30A/m ; criteria Store 4, 30A/m ; criteria Level 4, 30A/m ; criteria	eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria. a A eria A = (25°C) erature.			
SAFETY & EMC (Note.10)	EMC IMMU FIRE DETI FIRE ALAI MTBF DIMENSIO PACKING 1. All para 2. Variable 3. This is	NITY ECTION AND RM SYSTEM N meters NOT specia e with charger voltag Wean Well's sugges	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/IE 556.6K hrs min. Telco 110*125.2*150.7mm (W 1.65Kg; 6pcs/ 11Kg / 1.4 Illy mentioned are measu ge when battery is conne- sted range. Please consu	BS EN/EN55 BS EN/EN55 BS EN/EN61 BS	002 (CISPR32) 000-3-2 000-3-2 //EN61000-6-2(BS EN// 1000-4-2 1000-4-3 1000-4-3 1000-4-3 1000-4-5 1000-4-5 1000-4-6 1000-4-6 1000-4-8 Icore); 74.5K hrs m nput, rated load and anufacturer for their s	Class B Class B Class B EN50082-2) Test Level / Note Level 3, 8KV air ; Level 2 Level 3, 10V/m ; criteri Level 3, 10V/; criteri Level 3, 1KV/Line-Lii Level 3, 10V ; criteria Level 4, 30A/m ; criteria Evel 4, 30A/m ; criteria Suggestions about mate	eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria a A eria A = (25°C) erature. ximum charging current limitation.			
SAFETY & EMC (Note.10)	EMC IMMU FIRE DETI FIRE ALAI MTBF DIMENSIO PACKING 1. All para 2. Variable 3. This is is 4. If load c	NITY ECTION AND RM SYSTEM N meters NOT specia e with charger voltag Mean Well's sugges current increases, th	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/E 556.6K hrs min. Telcc 110*125.2*150.7mm (W 1.65Kg; 6pcs/ 11Kg / 1.4 Ily mentioned are measu ge when battery is conne- sted range. Please consu e system will prioritize loa	BS EN/EN55 BS EN/EN55 BS EN/EN61 BS	000-3-2 000-3-2 000-3-2 V/EN61000-6-2(BS EN/I 1000-4-2 1000-4-3 1000-4-3 1000-4-4 1000-4-5 1000-4-6 1000-4-6 1000-4-8 Icore); 74.5K hrs m nput, rated load and anufacturer for their s and and automatically	Class B Class B Class B EN50082-2) Test Level / Note Level 3, 8KV air ; Level 2 Level 3, 8KV air ; Level 2 Level 3, 10V/m ; criteria Level 3, 1KV/Line-Lia Level 3, 1KV/Line-Lia Level 3, 1KV/Line-Lia Level 3, 10V ; criteria Level 4, 30A/m ; criteria and the second secon	eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria a A eria A = (25°C) erature. ximum charging current limitation. arging current.			
SAFETY & EMC (Note.10)	EMC IMMU FIRE DETI FIRE ALAI MTBF DIMENSIO PACKING 1. All para 2. Variable 3. This is is 4. If load of 5. Ripple 8	NITY ECTION AND RM SYSTEM N meters NOT specia e with charger voltag Mean Well's sugges current increases, the a noise are measure	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/IE 556.6K hrs min. Telco 110*125.2*150.7mm (W 1.65Kg; 6pcs/ 11Kg / 1.4 Illy mentioned are measu ge when battery is conne- sted range. Please consu	BS EN/EN55 BS EN/EN55 BS EN/EN61 BS	i032 (CISPR32) 000-3-2 000-3-2 //EN61000-6-2(BS EN/I 1000-4-2 1000-4-3 1000-4-5 1000-4-6 1000-4-8 Icore); 74.5K hrs m nput, rated load and anufacturer for their s nd and automatically twisted pair-wire term	Class B Class B Class B EN50082-2) Test Level / Note Level 3, 8KV air ; Level 2 Level 3, 8KV air ; Level 2 Level 3, 10V/m ; criteria Level 3, 1KV/Line-Lia Level 3, 1KV/Line-Lia Level 3, 1KV/Line-Lia Level 3, 10V ; criteria Level 4, 30A/m ; criteria and the second secon	eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria a A eria A = (25°C) erature. ximum charging current limitation. arging current.			
SAFETY & EMC (Note.10)	EMC IMMU FIRE DETI FIRE ALAI MTBF DIMENSIO PACKING 1. All para 2. Variable 3. This is i 4. If load of 5. Ripple & 6. Toleran 7. Length	NITY ECTION AND RM SYSTEM Meters NOT specia with charger voltag Mean Well's sugges urrent increases, the a noise are measur ce : includes set up of setup time is mea	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/E 556.6K hrs min. Telco 110*125.2*150.7mm (W 1.65Kg; 6pcs/ 11Kg / 1.4 Illy mentioned are measu ge when battery is conne- sted range. Please consu e system will prioritize loa ed at 20MHz of bandwidt tolerance, line regulation asured at cold first start,	BS EN/EN55 BS EN/EN55 BS EN/EN61 BS EN/EN61 BS EN/EN61 EN61204-3, BS EN Standard BS EN/EN61 BS EN/EN61 <t< td=""><td>i032 (CISPR32) 000-3-2 000-3-2 //EN61000-6-2(BS EN/I/ 1000-4-2 1000-4-3 1000-4-4 1000-4-5 1000-4-6 1000-4-8 Icore); 74.5K hrs m nput, rated load and anufacturer for their s anufacturer for their s and automatically twisted pair-wire term tion. the power supply m.</td><td>Class B Class B EN50082-2) Test Level / Note Level 3, 8KV air ; Level 2 Level 3, 8KV air ; Level 2 Level 3, 10V/m ; criteria Level 3, 2KV ; criteria Level 3, 1KV/Line-Lia Level 3, 1KV/Line-Lia Level 4, 30A/m ; criteria Level 4, 30A/m ; criteria 25°C of ambient temp suggestions about max reduce the battery ch- minated with a 0.1uf & ay lead to increase of</td><td>eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria a A eria A = (25°C) = erature. ximum charging current limitation. arging current. : 47uf parallel capacitor. the setup time.</td></t<>	i032 (CISPR32) 000-3-2 000-3-2 //EN61000-6-2(BS EN/I/ 1000-4-2 1000-4-3 1000-4-4 1000-4-5 1000-4-6 1000-4-8 Icore); 74.5K hrs m nput, rated load and anufacturer for their s anufacturer for their s and automatically twisted pair-wire term tion. the power supply m.	Class B Class B EN50082-2) Test Level / Note Level 3, 8KV air ; Level 2 Level 3, 8KV air ; Level 2 Level 3, 10V/m ; criteria Level 3, 2KV ; criteria Level 3, 1KV/Line-Lia Level 3, 1KV/Line-Lia Level 4, 30A/m ; criteria Level 4, 30A/m ; criteria 25°C of ambient temp suggestions about max reduce the battery ch- minated with a 0.1uf & ay lead to increase of	eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria a A eria A = (25°C) = erature. ximum charging current limitation. arging current. : 47uf parallel capacitor. the setup time.			
SAFETY & EMC (Note.10)	EMC IMMU FIRE DETI FIRE ALAI MTBF DIMENSIO PACKING 1. All para 2. Variable 3. This is I 4. If load c 5. Ripple 8 6. Toleran 7. Length 8. The am	NITY ECTION AND RM SYSTEM N meters NOT specia with charger voltag Mean Well's sugges urrent increases, th a noise are measur ce : includes set up of setup time is mea bient temperature of	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/IE 556.6K hrs min. Telco 110*125.2*150.7mm (W 1.65Kg; 6pcs/ 11Kg / 1.4 Ily mentioned are measu ge when battery is conne- sted range. Please consu e system will prioritize loa ed at 20MHz of bandwidt tolerance, line regulation asured at cold first start, lerating of 3.5°C/1000m v	BS EN/EN55 BS EN/EN55 BS EN/EN61 BS EN/EN61 EN61204-3, BS EN BS EN/EN61 BS EN	i032 (CISPR32) 000-3-2 000-3-2 //EN61000-6-2(BS EN/H 1000-4-2 1000-4-3 1000-4-5 1000-4-6 1000-4-8 Icore); 74.5K hrs m nput, rated load and anufacturer for their s an automatically twisted pair-wire territion. the power supply m els and of 5°C/1000n	Class B Class B EN50082-2) Test Level / Note Level 3, 8KV air ; Level 2 Level 3, 8KV air ; Level 2 Level 3, 2KV ; criteri Level 3, 2KV ; criteri Level 3, 1KV/Line-Li Level 3, 1KV/Line-Li Level 3, 10V ; criteria Level 4, 30A/m ; criteria 25°C of ambient temp suggestions about max reduce the battery ch- minated with a 0.1uf & ay lead to increase of m with fan models for co	eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria a A eria A = (25°C) = rature. ximum charging current limitation. arging current. 47uf parallel capacitor. the setup time. operating altitude higher than 2000m(6500			
SAFETY & EMC (Note.10)	EMC IMMU FIRE DETI FIRE ALAI MTBF DIMENSIO PACKING 1. All para 2. Variable 3. This is 4. If load c 5. Ripple 8 6. Toleran 7. Length 8. The am 9. Installat	NITY ECTION AND RM SYSTEM N meters NOT specia with charger voltag Mean Well's sugges urrent increases, th a noise are measur ce : includes set up of setup time is mea bient temperature co ion clearances : 400	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/IE 556.6K hrs min. Telco 110*125.2*150.7mm (W 1.65Kg; 6pcs/ 11Kg / 1.4 Ily mentioned are measu ge when battery is conner sted range. Please consu e system will prioritize loa ed at 20MHz of bandwidt tolerance, line regulation asured at cold first start, lerating of 3.5°C/1000m v mm on top, 20mm on the	BS EN/EN55 BS EN/EN55 BS EN/EN61 BS EN/EN61 EN61204-3, BS EN BS EN/EN61 BS EN	002 (CISPR32) 000-3-2 //EN61000-6-2(BS EN/H 1000-4-2 1000-4-3 1000-4-5 1000-4-6 1000-4-8 Icore); 74.5K hrs m nput, rated load and anufacturer for their s nd and automatically twisted pair-wire terr tion. the power supply m els and of 5°C/1000n n the left and right sid	Class B Class B EN50082-2) Test Level / Note Level 3, 8KV air ; Level 2 Level 3, 8KV air ; Level 2 Level 3, 2KV ; criteri Level 3, 2KV ; criteri Level 3, 1KV/Line-Li Level 3, 1KV/Line-Li Level 3, 10V ; criteria Level 4, 30A/m ; criteria 25°C of ambient temp suggestions about max reduce the battery ch- minated with a 0.1uf & ay lead to increase of m with fan models for co	eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria a A eria A = (25°C) = erature. ximum charging current limitation. arging current. : 47uf parallel capacitor. the setup time.			
SAFETY & EMC (Note.10)	EMC IMMU FIRE DETIFIRE ALAI MTBF DIMENSIO PACKING 1. All para 2. Variable 3. This is i 4. If load of 5. Ripple & 6. Toleran 7. Length 8. The am 9. Installat In case	NITY ECTION AND RM SYSTEM meters NOT specia with charger voltag Mean Well's sugges urrent increases, the anoise are measur ce : includes set up of setup time is mea bient temperature co ion clearances : 400 the adjacent device	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/IE 556.6K hrs min. Telco 110*125.2*150.7mm (W 1.65Kg; 6pcs/ 11Kg / 1.4 Ily mentioned are measu ge when battery is conner sted range. Please consu e system will prioritize loa ed at 20MHz of bandwidt tolerance, line regulation asured at cold first start, lerating of 3.5°C/1000m v mm on top, 20mm on the p is a heat source, 15cm	BS EN/EN55 BS EN/EN55 BS EN/EN61 BS EN/EN61 EN61204-3, BS EN BS EN/EN61 BS EN	002 (CISPR32) 000-3-2 0/EN61000-6-2(BS EN/H 1000-4-2 1000-4-3 1000-4-3 1000-4-5 1000-4-6 1000-4-8 1000-4-8 1core); 74.5K hrs m nput, rated load and anufacturer for their s nd and automatically twisted pair-wire terr tion. the power supply m els and of 5°C/1000n n the left and right signmended.	Class B Class B EN50082-2) Test Level / Note Level 3, 8KV air ; Level 2 Level 3, 8KV air ; Level 2 Level 3, 10V/m ; criteria Level 3, 1KV/Line-Lia Level 3, 1KV/Line-Lia Level 3, 1KV/Line-Lia Level 3, 10V ; criteria Level 4, 30A/m ; criteria 25°C of ambient temp suggestions about max reduce the battery chi- minated with a 0.1uf & ay lead to increase of m with fan models for of de are recommended	eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria a A eria A = (25°C) = (25°C) = rature. ximum charging current limitation. arging current. 47uf parallel capacitor. the setup time. operating altitude higher than 2000m(6500 when loaded permanently with full power.			
SAFETY & EMC (Note.10)	FIRE DETI FIRE DETI FIRE ALAI MTBF DIMENSIO PACKING 1. All para 2. Variable 3. This is I 4. If load c 5. Ripple & 6. Toleran 7. Length 8. The am 9. Installat In case 10. The po	NITY ECTION AND RM SYSTEM N meters NOT specia e with charger voltage Wean Well's sugges urrent increases, the a noise are measure ce : includes set up of setup time is mea- bient temperature of ion clearances : 400 the adjacent device ower supply is cons	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/E 556.6K hrs min. Telco 110*125.2*150.7mm (W 1.65Kg; 6pcs/ 11Kg / 1.4 Illy mentioned are measu ge when battery is conne ested range. Please consu te system will prioritize loa ed at 20MHz of bandwidt tolerance, line regulation asured at cold first start, flerating of 3.5°C/1000m v mm on top, 20mm on the e is a heat source, 15cm	BS EN/EN55 BS EN/EN55 BS EN/EN61 EN61204-3, BS EN Standard BS EN/EN61 BS EN/EN61 BS EN/EN61 BS EN/EN61 BS EN/EN61 BS EN/EN61 BS EN/EN61 BS EN/EN61 EN54-4 ordia SR-332 (Bel *H*D) I2CUFT red at 230VAC in cted. It your battery ma ad current demar h by using a 12" and load regula Tuming ON/OFF with fanless mode bottom, 5mm or clearance is reco	002 (CISPR32) 000-3-2 0/EN61000-6-2(BS EN// 1000-4-2 1000-4-3 1000-4-3 1000-4-5 1000-4-6 1000-4-8 1000-4-9 1000-4-9 1000-4-9 1000-4-9 1000-4-9 10000-4-9	Class B Class B N50082-2) Test Level / Note Level 3, 8KV air ; Level 2 Level 3, 8KV air ; Level 2 Level 3, 10V/m ; criteria Level 3, 1KV/Line-Lii Level 3, 1KV/Line-Lii Level 3, 10V ; criteria Level 4, 30A/m ; criteria Level 4, 30A/m ; criteria 25°C of ambient temp suggestions about mai reduce the battery cho- minated with a 0.1uf & ay lead to increase of n with fan models for of de are recommended ant. The final equipment	eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria a A eria A = (25°C) = erature. ximum charging current limitation. arging current. 47uf parallel capacitor. the setup time. operating altitude higher than 2000m(6500 when loaded permanently with full power. nt must be re-confirmed that it still meets			
SAFETY & EMC (Note.10)	EMC IMMU FIRE DETI FIRE ALAI MTBF DIMENSIO PACKING 1. All para 2. Variable 3. This is I 4. If load c 5. Ripple & 6. Toleran 7. Length 8. The am 9. Installat In case 10. The po EMC di	NITY ECTION AND RM SYSTEM N meters NOT specia e with charger voltage Wean Well's sugges urrent increases, the a noise are measure ce : includes set up of setup time is mea- bient temperature of ion clearances : 400 the adjacent device ower supply is cons	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/E 556.6K hrs min. Telco 110*125.2*150.7mm (W 1.65Kg; 6pcs/ 11Kg / 1.4 Ily mentioned are measu ge when battery is conne- sted range. Please consu e system will prioritize loa ed at 20MHz of bandwidt tolerance, line regulation asured at cold first start, lerating of 3.5°C/1000m v mm on top, 20mm on the e is a heat source, 15cm	BS EN/EN55 BS EN/EN55 BS EN/EN61 EN61204-3, BS EN Standard BS EN/EN61 BS EN/EN61 BS EN/EN61 BS EN/EN61 BS EN/EN61 BS EN/EN61 BS EN/EN61 BS EN/EN61 EN54-4 ordia SR-332 (Bel *H*D) I2CUFT red at 230VAC in cted. It your battery ma ad current demar h by using a 12" and load regula Tuming ON/OFF with fanless mode bottom, 5mm or clearance is reco	002 (CISPR32) 000-3-2 0/EN61000-6-2(BS EN// 1000-4-2 1000-4-3 1000-4-3 1000-4-5 1000-4-6 1000-4-8 1000-4-9 1000-4-9 1000-4-9 1000-4-9 1000-4-9 10000-4-9	Class B Class B N50082-2) Test Level / Note Level 3, 8KV air ; Level 2 Level 3, 8KV air ; Level 2 Level 3, 10V/m ; criteria Level 3, 1KV/Line-Lii Level 3, 1KV/Line-Lii Level 3, 10V ; criteria Level 4, 30A/m ; criteria Level 4, 30A/m ; criteria 25°C of ambient temp suggestions about mai reduce the battery cho- minated with a 0.1uf & ay lead to increase of n with fan models for of de are recommended ant. The final equipment	eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria a A eria A = (25°C) = (25°C) = erature. ximum charging current limitation. arging current. arging current. arging current. the setup time. operating altitude higher than 2000m(6500 when loaded permanently with full power. nt must be re-confirmed that it still meets			





File Name:DRS-480-SPEC 2023-11-16

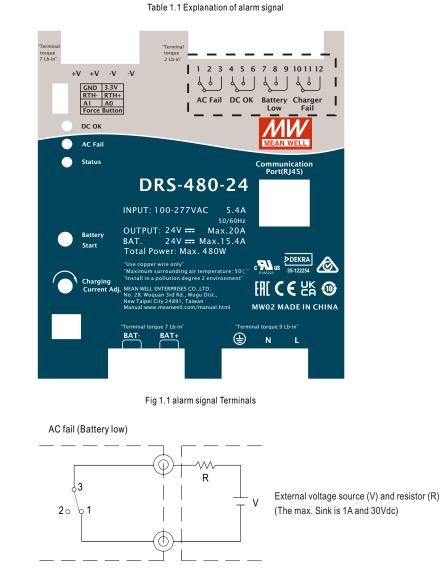


Function manual

1.Alarm signals

- (1) Alarm Signal is sent out through "AC fail " & " Battery low " & " Charger fail "pins via relay contact.
- (2) An external voltage source is required for this function. The maximum applied voltage is 30Vdc and the maximum sink current is 1A. Please refer to Fig 1.2.
- (3) Table 1.1 explains the alarm function built in the power supply

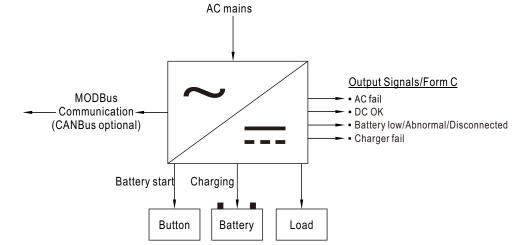
INPUT	AC fail		DC OK		Battery low/Abnormal /Disconnected		Charger fail	
	2-3	1-3	5-6	4-6	8-9	7-9	11-12	10-12
AC only	closed	open	closed	open	open	closed		
AC + BAT.	closed	open	closed	open	closed	open		
BAT. only	open	closed	closed	open	closed	open		
Low BAT. (<30% capacity)					open	closed		
Charger Fail							open	closed





2.DC-UPS function

When AC mains drops below:79~89VAC of 120VAC,132~187VAC of 220VAC, UPS function will activate and power source switch battery backup.

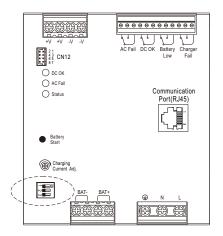


3.Charger setting

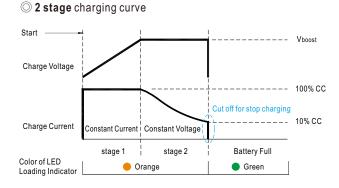
3.1.1 2 or 3-stage selectable by DIP S.W

X This series provides 2 or 3 stage charging curve.

1	OFF: 3 stage(Default), ON: 2 stage
2	Charging curve adjustable:see below
3	Charging curve adjustable.see below



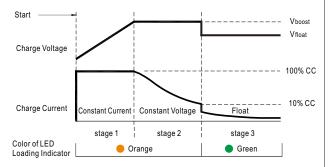
3.1.2 Charging curve can be adjustable by DIP S.W



State	DRS-480-24	DRS-480-36	DRS-480-48
Constant Current	15.4A	10.2A	7.7A
Vboost	28.8V	43.2V	57.6V

© Suitable for lead-acid batteries (flooded, Gel and AGM) and Li-ion batteries (lithium iron and lithium manganese).





State	DRS-480-24	DRS-480-36	DRS-480-48
Constant Current	15.4A	10.2A	7.7A
Vboost	28.8V	43.2V	57.6V
Vfloat	27.6V	41.4V	55.2V

© Suitable for lead-acid batteries (flooded, Gel and AGM) and Li-ion batteries (lithium iron and lithium manganese).

% The default curve is programmable, whereas other pre-defined curves can be activated by the means of the DIP S.W; please refer to the table below and the Mechanical Specification.



OFF OFF Default, programmable 24 ON OFF Pre-defined, gel batter 15.4A 24 OFF ON Pre-defined, flooded battery 24 24 OF ON Pre-defined, AGM battery,LiFe04 24 24 DIP SW position 36V model 24 24 Q 3 Description CC(default) Vb OFF OFF Default, programmable 44 ON OFF Pre-defined, gel battery 10.2A 44	oost 8.8 8.0 8.4 9.2
OFF OFF Default, programmable 04 ON OFF Pre-defined, gel batter 15.4A OFF ON Pre-defined, flooded battery 24 ON ON Pre-defined, AGM battery,LiFe04 24 DIP SW position 36V model 24 Q 3 Description 6CC(default) OFF OFF Default, programmable 44 ON OFF Pre-defined, gel battery 10.2A	8.8 8.0 8.4
ON OFF Pre-defined, gel batter OFF ON Pre-defined, flooded battery ON ON Pre-defined, AGM battery,LiFe04 DIP SW position 36V model 2 3 Description OFF OFF Default, programmable ON OFF Pre-defined, gel battery	8.0 8.4
OFF ON Pre-defined, flooded battery 15.4A ON ON Pre-defined, AGM battery,LiFe04 24 DIP SW position 36V model 24 2 3 Description CC(default) OFF OFF Default, programmable 44 ON OFF Pre-defined, gel battery 10.2A	8.4
OFF ON Pre-defined, flooded battery 24 ON ON Pre-defined, AGM battery,LiFe04 24 DIP SW position 36V model 24 2 3 Description CC(default) Vb OFF OFF Default, programmable 44 ON OFF Pre-defined, gel battery 10.2A	
DIP SW position 36V model 2 3 Description CC(default) Vb OFF OFF Default, programmable 43 ON OFF Pre-defined, gel battery 10.2A	9.2
2 3 Description CC(default) Vb OFF OFF Default, programmable 43 ON OFF Pre-defined, gel battery 10.2A	
OFF OFF Default, programmable 43 ON OFF Pre-defined, gel battery 10.2A	
ON OFF Pre-defined, gel battery 10.2A	oost
10.2A	3.2
	12
	2.6
ON ON Pre-defined, AGM battery,LiFe04 43	3.8
DIP SW position 48V model	
2 3 Description CC(default) Vb	oost
OFF OFF Default, programmable 5	7.6
ON OFF Pre-defined, gel battery 7.7A	
	6.0
ON ON Pre-defined, AGM battery, LiFe04 58	6.0 6.8

© Embedded 2 stage charging curve

© Embedded 3 stage charging curve

DIP SW position 24V model					
2	3	Description	CC(default)	Vboost	Vfloat
OFF	OFF	Default, programmable		28.8	27.6
ON	OFF	Pre-defined, gel batter	15.4A	28.0	27.2
OFF	ON	Pre-defined, flooded battery	15.4A	28.4	26.8
ON	ON	Pre-defined, AGM battery,LiFe04		29.2	28.0
DIP SW position 36V model					
2	3	Description	CC(default)	Vboost	Vfloat
OFF	OFF	Default, programmable		43.2	41.4
ON	OFF	Pre-defined, gel battery	10.2A	42	40.8
OFF	ON	Pre-defined, flooded battery	10.ZA	42.6	40.2
ON	ON	Pre-defined, AGM battery,LiFe04		43.8	42.0
DIP SW	position	48V mo	del		
2	3	Description	CC(default)	Vboost	Vfloat
OFF	OFF	Default, programmable		57.6	55.2
ON	OFF	Pre-defined, gel battery	7.7A	56.0	54.4
OFF	ON	Pre-defined, flooded battery	1.1A	56.8	53.6
ON	ON	Pre-defined, AGM battery,LiFe04		58.4	56.0

3.2 SBP-001 can adjust the charging curves (Only CANBus Model)

○ 2 stage charging curve (programable)

DIP SW	position	24V model		
2	3	Description	CC(default)	Vboost
OFF	OFF	Default, programmable	15.4A	28.8
DIP SW	DIP SW position 36V model			
2	3	Description	CC(default)	Vboost
OFF	OFF	Default, programmable	10.2A	43.2
DIP SW	DIP SW position 48V model			
2	3	Description	CC(default)	Vboost
OFF	OFF	Default, programmable	7.7A	57.6

○ **3 stage** charging curve (programable)

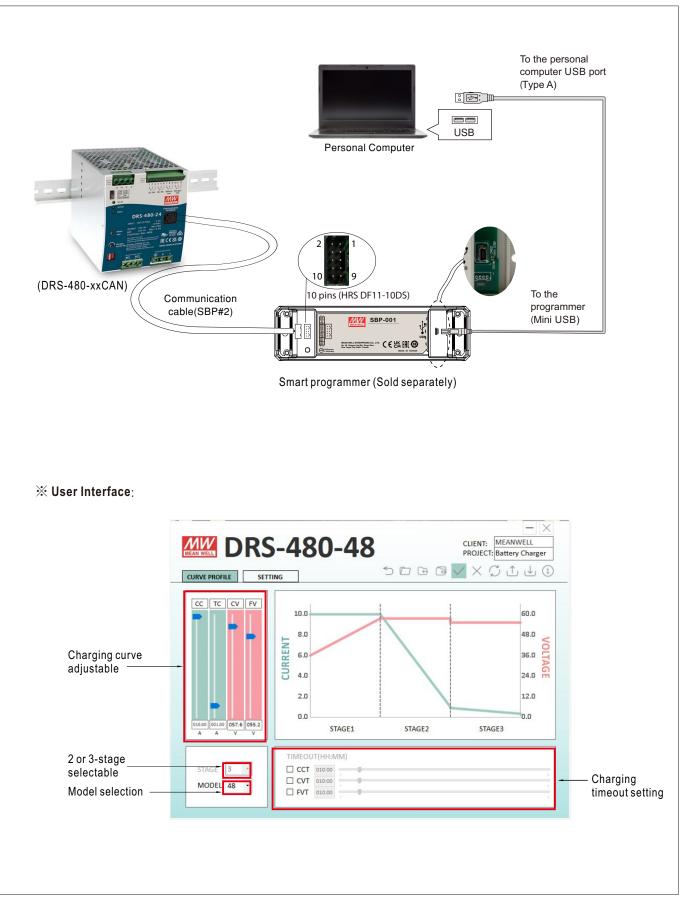
DIP SW	position	24V model				
2	3	Description	CC(default)	Vboost	Vfloat	
OFF	OFF	Default, programmable	15.4A	28.8	27.6	
DIP SW position		36V model				
2	3	Description	CC(default)	Vboost	Vfloat	
OFF	OFF	Default, programmable	10.2A	43.2	41.4	
DIP SW	position	48V mo	del			
2	3	Description	CC(default)	Vboost	Vfloat	
OFF	OFF	Default, programmable	7.7A	57.6	55.2	

SBP-001 is a programmer, particularly for MEAN WELL's various programmable battery charger models to program the parameters of charging curves, such as the <u>Constant current (CC)</u>, <u>tapper current(TC)</u>, <u>Constant voltage (CV)</u>, <u>float voltage (FV)</u> and so on, to accommodate the diversified battery specification in industry. With the design accounting for simplicity and convenience, users can easily configure MEAN WELL's programmable battery chargers with SBP-001 programmer and the computer; all of the setups are able to be finished easily by the means of the specific software.

Note:(1) Tapper current(TC) default is 10%, can be fine tuned from 2% to 30% by SBP-001 with computer or CANBus Interface.

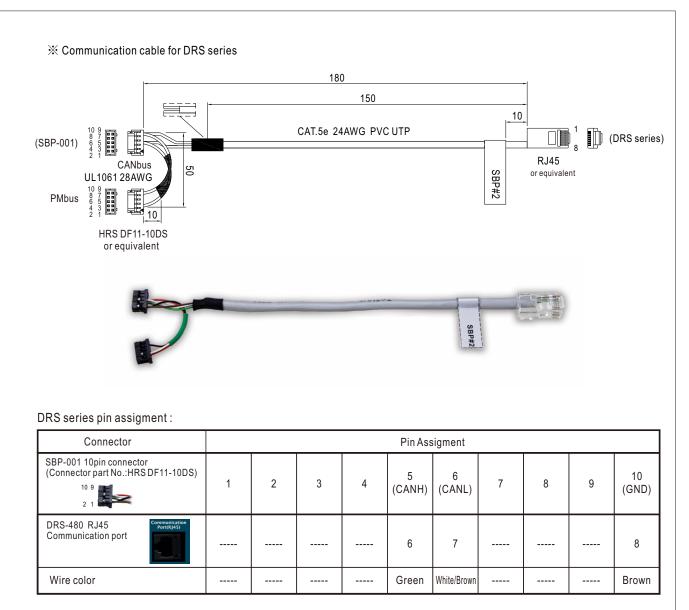
- (2) The SBP-001 only supports CANBus version(DRS-480-xxCAN is optional).
- (3) Please contact MEAN WELL for more details.





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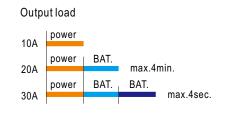


3.3 Communication interface

Charging parameters can be modified by MODBus (Built-in) or CANBus(optional) communication commands. For details, please refer to: http://www.meanwell.com/manual.html

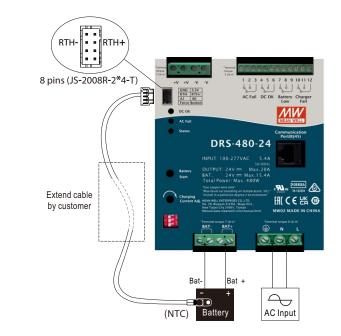
4. Power Boost Mode

The maximum current on the load output is the 2 times the rated current for 4 minutes max. and 3 times the rated current for 4 seconds max. For example (48V model):





5.Battery temperature compensation



- © To exploit the temperature compensation function, please attach the temperature sensor(NTC) which is enclosed with DRS-480, to the battery or the battery's vicinity.
- O DRS-480 is able to work normally without the temperature sensor(NTC).
- 5.1 The compensation parameters included Disable, -3, -4 and -5mV/ °C /Cell .It can be modified by communication command of CANBus, MODBus. The factory default value is -3mV/ °C /Cell.
- 5.2 It will be regarded as normal temperature and will not be compensated when temperature compensation resistance is not connected; And temperature compensation will only compensate lead-acid battery, not lithium iron battery.
- 5.3 The range of temperature compensation is 0-40°C , normal temperature 25°C is the central value, no compensation; When the temperature is < 0 °C or > 40 °C, the current temperature compensation value will be limited to 0 °C or 40°C.

```
24V model as an example
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Assuming that V_{boost} =28.8V, temperature compensation set to -5mV/°C/Cell by communication, TEMP_bat is NTC temperature detection.

The compensating voltage can be calculated by the following equation:

 V_{boost_comp} =28.8V-5mV*(TEMP_bat -25°C)*12Cell

Max. compensation voltage:

V_{boost_H}=28.8V-5mV*(0°C-25°C)*12CeII=30.3V

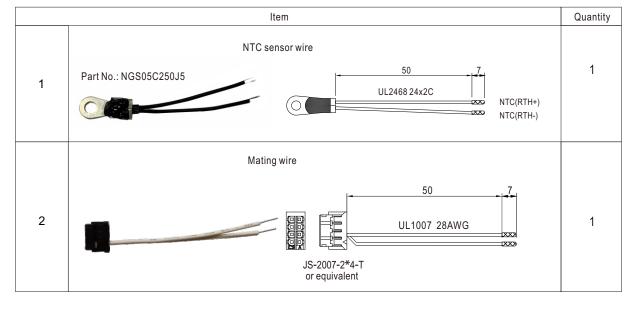
Min. compensation voltage:

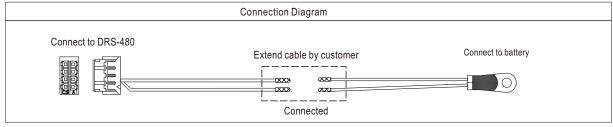
V_{boost_L}=28.8V-5mV*(40°C-25°C)*12CeII=27.9V



5.4 Accessory List









6.LED alarm

Function		Description	Output of alarm				
DC OK		DC fail	OFF O				
		DCOK	Green 🔵				
		AC fail	Red				
		AC OK	OFF O				
-	Charging	Float	Green 🌰				
	status	Charging: CC/CV	Orange 🔴				
	System diagnosis	Discharging	Orange: 1 Blink/Pause				
		Charger fail	Red : 1 Blink/Pause				
Status		Battery overvoltage / Battery reverse polarity	Red : 2 Blink/Pause 🔆 🎵				
		Battery low / No Battery	Red:3Blink/Pause 🔆 ЛЛ				
		Battery discharge peak power timeout.	Red : 4 Blink/Pause 🔆 ፲፲፲፲				
		Over load / short	Red : 5 Blink/Pause 🔆				
		Over temperature	Red : 6 Blink/Pause 🔆				
	·	Timeout	Red : 7 Blink/Pause 🔆				



Suggested Application

1.Backup connection for AC interruption

(1) Please refer to Fig2.1 for suggested connection.

The power supply charges the battery and provides energy to the load at the same time when AC mains is OK. The battery starts to supply power to the load when AC mains fails.

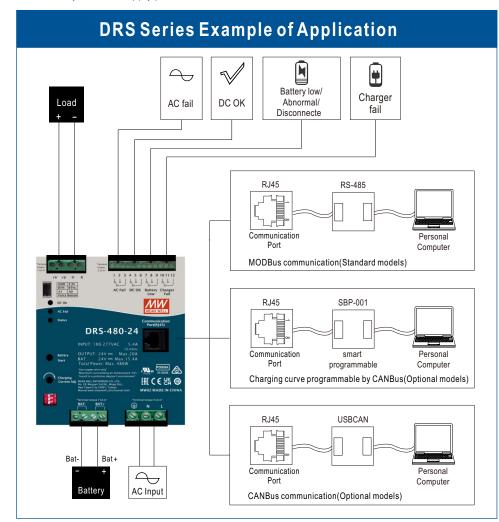


Fig 2.1 Suggested system connection

(2) Backup time

Backup time depends on:

- ⅔ from the load current
- % from the size of the batteries.

The following table is an example (battery capacity at C10 discharge rate).

Battery Load	10AH	20AH	50AH	100AH	200AH
1.5A	350min	13h	33h	67h	133h
3A	125min	350min	17h	33h	67h
5A	60min	180min	600min	20h	40h
7.5A	35min	90min	350min	13h	27h
10A	23min	60min	240min	10h	20h
15A	13min	35min	125min	350min	13h



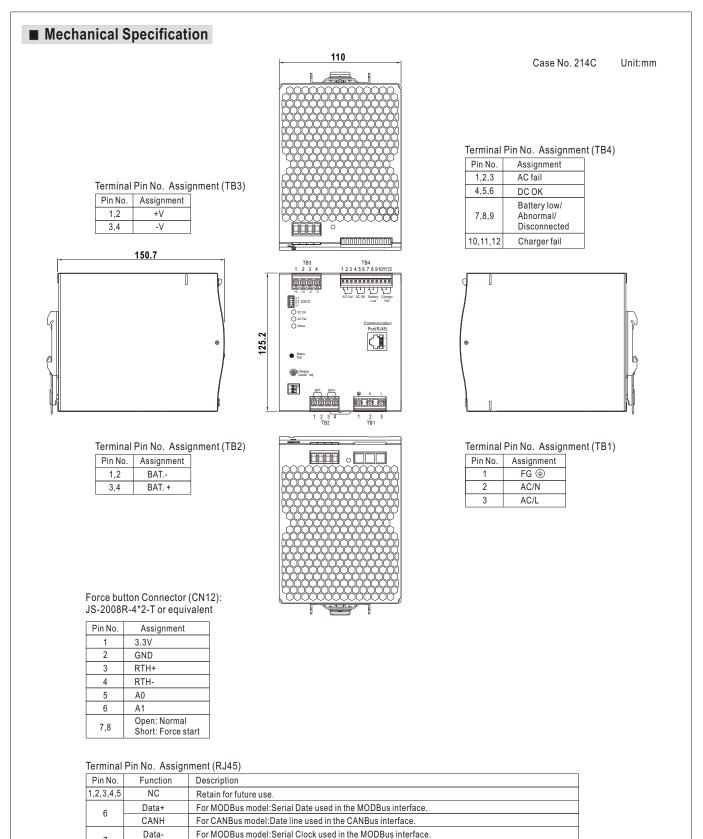
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8

CANI

GND-AUX

DRS-480 series



For CANBus model:Date line used in the CANBus interface.

Auxillary voltage output GND. The signal return is isolated from the output terminals(+V & -V).



